

# Lestaurtinib(KT5555)

## Sections 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

SDS KT5555 Lestaurtinib vers 8-2024

*Page 1 of 10* 

## 1. Identification of the Substance and the Manufacturer

## 1.1. Product identifiers

1.2. Intended uses of the Substance and uses advised against

	J				
Product name	<u>Lestaurtinib</u> (KT5555)	Formula		C26.	H21N3O4
Product Code	LES	Molecular v	weight	439.	46 g/mol
CAS#	111358-88-4	Mixture?		Subs	stance
ECHA#	Not listed/8-2024	<b>PUBCHEM</b>	<u>[</u>	KT:	<u>5555</u>
Comptox EPA	<u>5046778</u>	<u>RTECS</u>		OH	2150000
Drug bank#	<u>DB06469</u>	<u>CHEBI</u>		<u>914</u> 2	<u>71</u>
Synonyms and other names	KT5555	LSM-1231			
Source	Synthetic From:		Vers Date		10 October, 2024

1.2.1. Intended use:	1.2.2. Uses advised against:
Research and development.	Not a drug,
Laboratory reagent.	Not a food additive
Reference material.	Not to be used in humans or animals.
Manufacturing of substances.	
To be used by professionals only	

## 1.3. Contacts

1.3.1. Details of the supplier of the SDS

FERMENTEK ltd Tel: +972 2 5853953 4 Yatziv street, POB 47120 Fax: +972 2 5853943

Jerusalem 97800, eMail: <u>Fermentek@Fermentek.com</u>

Israel <u>Safety@Fermentek.com</u>

Website: Fermentek.com

This company is the manufacturer of the product and the supplier of the safety data sheet

## 1.3.2. Emergency Telephone number

For chemical emergency spill, leak, fire, exposure, or accident calls CHEMTREC day or night: Within USA and Canada: 1-800-424-9300. Outside USA and Canada: +1 703-527-3887













# Lestaurtinib(KT5555)

Sections 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

SDS KT5555 Lestaurtinib vers 8-2024

*Page 2 of 10* 

- 2. Hazards' identification.
- 2.1. Classification of the Substance.

To our judgement, hazards of this substance have not been thoroughly investigated Other suppliers have classified this substance as H300, H310, H330 (Fatal if swallowed, inhaled or in contact with skin, and H350 may cause cancer. To our opinion, these claims are not proven sufficiently. Some closely related substances are highly hazardous. Therefore, we recommend handling all chemicals with caution.

Aflatoxin M2 is an aflatoxin which occurs naturally in the milk of mammals which were fed on contaminated feed. Natural aflatoxins are highly toxic and are considered carcinogenic.

To our judgement, hazards of this substance have not been thoroughly investigated

Other suppliers have classified this substance as H300, H310, H330 (Fatal if swallowed, inhaled or in contact with skin, and H350 may cause cancer. To our opinion, these claims are not proven sufficiently, but closely related substances are highly hazardous, and all naturally occurring Aflatoxins can cause cancer. Therefore, we included our estimates instead of experimental data, and we recommend handling all chemicals with due caution.

There is no toxicologic data regarding this compound available. Some closely related compounds are harmless. To our opinion, Lestaurtinib(KT5555) presents no health hazards.

2.1.1. GHS Classification: According to EU Reg. 1272/2008 and US OSHA 1910.1200)

Not hazardous, not classified according to EU Reg. 1272/2008 and US OSHA 1910.1200).

- 2.2.GHS Label elements, including precautionary statements
  - 2.2.1. Pictogram: { None } Signal word: { None}
  - 2.2.2. Hazard Statements

Not hazardous, not classified according to EU Reg. 1272/2008 and US OSHA 1910.1200).

## 2.2.3. GHS Precautionary Statements

P203	Obtain, read and follow all safety instructions before use.
P261	Avoid breathing dust or mist.
P264	Wash {hands} thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection

2.2.4.

## 2.2.5. GHS Response Phrases:

P308+P313 IF exposed or concerned: Get medical advice/attention

## 3. Composition/information on ingredients

Substance













Sections 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

SDS KT5555 Lestaurtinib vers 8-2024

*Page 3 of 10* 

Substance Name:	Lestaurtinib(KT5555)
Concentration	<=100%
CAS Registry#:	111358-88-4
EC#:	Not listed/8-2024
Molecular Formula:	C26H21N3O4
Molecular Weight:	439.46 g/mol
Classification	Acc O:3 (H301)
Mixture?	Substance

### 4. First Aid Measures.

### 4.1. Description of First Aid Measures.

General advice:	First-aiders need to protect themselves.  If medical attention is required, show this safety data sheet to the doctor in attendance.
Ingestion:	If swallowed: give water to drink (two glasses at most). Seek medical advice immediately.

### *4.2.* Most important symptoms and effects, both acute and delayed

General symptoms See section 11

## Indication of any immediate medical attention and special treatment needed *4.3*.

Note to physicians No data available

### Fire-fighting measures. *5*.

### Extinguishing media. *5.1*.

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	None known

### *5.2.* Other information

Hazardous combustion products	Carbon oxides, Nitrogene oxides, Sulfur oxides, Sulfur hydrogene C26H21N3O4
Advice for firefighters	Wear self-contained breathing apparatus for fire fighting if necessary. Wear protective suit.

### **6.** Accidental release measures

### Personal precautions, protective equipment, and emergency procedures *6.1.*

Personal precautions	Use personal protective equipment as required. Keep people away from
	and upwind of spill/leak.

### **Environmental precautions** *6.2.*

Environmental precautions	Prevent further leakage or spillage if safe to do so. Prevent product from
	entering drains.













# Safety Lestaurtinib(KT5555)

Sections 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

SDS KT5555 Lestaurtinib vers 8-2024

*Page 4 of 10* 

### Methods and material for containment and cleaning up *6.3*.

Methods for containment:	Prevent further leakage or spillage if safe to do so. Cover the powder spill with a plastic sheet or tarp to minimize spreading. Dike far ahead of liquid spill for later disposal.
Methods for cleaning up:	Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Cover liquid spill with sand, earth or other non-combustible absorbent material (e.g., sand, earth, diatomaceous earth, and vermiculite). Cover the powder spill with a plastic sheet or tarp to minimize spreading. Sweep up and shovel into suitable containers for disposal.

### *7*. Handling and storage

### Precautions for safe handling 7.1.

Advice on safe handling:	Avoid contact with skin, eyes or clothing. Use personal protective
	equipment as required. Wash contaminated clothing before reuse. Do not
	breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke
	when using this product.

### *7.2.* Conditions for safe storage, including any incompatibilities

Storage Conditions:	Keep container tightly closed in a dry and well-ventilated place.  Keep out of the reach of children.
	Store at -20 °C.
Suitable packaging	Must only be kept in original packaging.
Incompatible materials:	None known based on information available.

### Exposure Controls/Personal Protection 8.

## Attiention:

Usually, the product of concern would be present at the intended workplace in miniscule amounts, while surrounded by considerable amounts of other flammable, toxic or otherwise hazardous substances. Therefore, the employer/user should perform a risk assessment prior to the use of this product.

The type of protective equipment must be selected based on the amount and concentration of all dangerous materials being used in the workplace.

All recommendations included in this document are advisory in nature

### *8.1.* Control parameters

Control parameters	Components with workplace control parameters
8.2. Exposure controls	
Appropriate engineering	Showers, Eyewash stations, Ventilation systems
controls	Avoid contact with skin, eyes, and clothing.
	Wash hands before breaks and immediately after handling the product













Sections 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

SDS KT5555 Lestaurtinib vers 8-2024

Page 5 of 10

### Personal protective equipment *8.3.*

[PPE=Personal Protection Eq	uipment]
PPE: Respiratory protection	Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
PPE: Hand Protection:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal techniques to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices, and wash and dry hands
PPE: Eye Protection:	Use a face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU)
PPE: Skin and Body Protection:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

## 9. Physical and chemical properties

The information given here does not purport specification of warranty of any kind. It is designed only as guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification.

### *9.1*. Physical/chemical properties

Physical State at room temperature	Solid
Appearance	White powder

No further safety relevant data are available

### Stability and reactivity *10.*

Reactivity:	No information available.
Chemical stability:	Stable under normal conditions.
Conditions to avoid	Heat, flames and sparks. Sunlight.
Incompatible materials	Strong reducers and exidizers













# Sections 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

SDS KT5555 Lestaurtinib vers 8-2024

Page 6 of 10

Possibility of Hazardous Reactions	None under normal processing
Hazardous combustion products	See section 5

### Toxicological information *11*.

### Information on toxicological effects 11.1.

To the best of our knowledge, the toxicological effects of this product have not been thoroughly studied yet.

## 11.1.1. Acute Toxicity

11.1.2.

## Comment: Some closely related compounds are harmless

Acute toxicity:	No data available
Skin corrosion/irritation:	No data available
Serious eye damage/eye irritation:	No data availabl
Respiratory or skin sensitization/corrosion:	No data available

## 11.1.3. Chronic toxicity

Chronic toxicity No data available

## 11.1.4. CRM (Carcinogene, Mutagene, Reproductive hazards)

Germ cell mutagenicity:	No data available
Carcinogenicity:	Not classified by IARC
Reproductive toxicity / Teratogenicity:	No data available

### *11.2.* Additional information

RTECS number	OH2150000
General symptoms	Not available

### **Ecological Information** *12*.

Eco-Toxicity	No data available
Other adverse effects	No data available

### *13*. **Disposal Considerations**

### *13.1*. Waste treatment methods

Waste Disposal	Dispose of in accordance with local regulations
Contaminated packaging	Dispose of as unused product













# Lestaurtinib(KT5555)

Sections 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

SDS KT5555 Lestaurtinib vers 8-2024

*Page 7 of 10* 

## 14. Transport information

14.1. UN Number, Proper Shipping Name, Transport Hazard Class, packing group

	IATA	IMDG	ADR/RID	US/DOT
UN Number, Proper	Not classified	Not classified	Not classified	Not classified
shipment name	(Lestaurtinib(KT5555) )	(Lestaurtinib(KT55 55))	(Lestaurtinib(KT55 55))	(Lestaurtinib(KT55 55))
Transport	Not hazardous for	Not hazardous for	Not hazardous for	Not hazardous for
hazard Class, Packing group	transport Not regulated	transport Not regulated	transport Not regulated	transport Not regulated

## 15. Regulatory information

## 15.1. Safety, health, and environmental regulations/legislation

USA EPA / TSCA	This product is not listed on the USA EPA TSCA (it is for research)		
EU ECHA Status	This product is registered with the EU ECHA, Number Not listed/8-2024 REACH: Neither Registered nor PreRegistered.  ANNEX III (criteria for 1 - 10 tonne registered substances): Not Listed		

## 16. Other information

## 16.1. Version information

Version date:

## 16.2. Department issuing this SDS

Quality systems and regulatory affairs

## 16.3. General Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication.

The information given here is designed only as guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification.

The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless explicitly specified in the text.

## 16.4. The users'/employers' responsibility:

Usually, the product of concern would be present at the intended workplace in miniscule amounts, while surrounded by considerable amounts of other flammable, toxic or otherwise hazardous substances.













# Lestaurtinib(KT5555)

Sections 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

SDS KT5555 Lestaurtinib vers 8-2024

Page 8 of 10

Therefore, the employer/user should perform a risk assessment by prior to the use of this product. The type of protective equipment must be selected based on the amount and concentration of all dangerous materials being used in the workplace.

All recommendations included in this document are advisory in nature.

## 16.5. No © copyright



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Fermentek believes that no one can claim copyright on an SDS. This sort of document is but a compendium of common knowledge and published facts.

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## 16.6. End of SDS





Sections 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

SDS KT5555 Lestaurtinib vers 8-2024

Page 9 of 10

Annondix A · Abbreviations and acronyms.

This symbol means, the text looking like a hyperlink, is a clickable link indeed. Of course, these are only active on glass screens, not on paper.  Synthetic / From  "Synthetic" means this compound has been manufactured by chemical conversion of another product of ours.  "From" means the compound was extracted from biomass, whither algal, fungal, microbial or plant material.  Mixture/Substance.  Mixture means there are two or more pure substances mixed purposely.  Not including cases of two or more substances mixed purposely.  Acute Tox.: Acute toxicity  CAS: Chemical Abstracts Service  CheBI Chemical Entities of Biological Interest  Comptox  Comptox Comptox Chemicals Dashboard Resource Hub (EPA)  DOT: US Department of Transportation  ECHA European Chemicals Agency  EINECS: European Inventory of Existing Commercial Chemical Substances  EPA United States Environmental Protection Agency  Eye Dam.: Serious eye damage/eye irritation  HSDB Havardous Substances Data Bank  HMIS: Hazardous Substances Data Bank  HMIS: Hazardous Materials Identification System (USA)  International Maritime Code for Dangerous Goods  LCSO: Lethal concentration, Median  LDSO: Lethal dose, Median  LDSO: Lethal dose, Median  LDSO: Lethal dose, Median  LDSO: Not dasgerus goods (for transport)  NIPA: National Institute for Occupational Safety  NOSH: Persistent, Bioaccumulative, and Toxic  PEI: Permissible Exposure Limit  Rept.: Recommended Exposure Limit  Rept.: Reproductive toxicity, incl. hazards to reproductive systems, and pregnancy and the offspring.  RECS: Registry of Toxic Effects of Chemical Substances. Not free.  Skin Inti: Skin carrosion/irritation  Toxic dose, least published  TOXI Oxic dose, least published	Аррепа	ix A: Abbreviations and acronyms:			
Synthetic/From Synthetic/Promass the compound has been manufactured by chemical conversion of another product of ours. From means the compound was extracted from biomass, whither algal, fungal, microbial or plant material Mixture/Substance Mixture/Substance Acute Tox.: Acute toxicity CAS: Chemical Astracts Service Chell Chemical Entities of Biological Interest Comptox Comptox Comptox Comptox Chemicals Dashboard Resource Hub (EPA) DOT: US Department of Transportation ECHA European Chemicals Agency EINECS: European Inventory of Existing Commercial Chemical Substances EPA United States Environmental Protection Agency EYe Dam: Serious eye damage/eye irritation HMIS: Hazardous Materials Identification System (USA) HATA: International Air Transport Association IMDG: International Maritime Code for Dangerous Goods LCSO: Lethal concentration, Median LDSO: Lethal dose, Median LDSO: Lethal dose, Median NDG Not dangerous goods (for transport) NPA: National Institute for Occupational Safety NOAEL No-Observed-Adverse-Effects-Level. Highest dose which yelded no results at toxisity test OSHA: Occupational Safety & Health PBT: Persistent, Bioaccumulative, and Toxic PEL: Permissible Exposure Limit Repr.: Reproductive toxicity, incl. hazards to reproductive systems, and pregnancy and the offspring. RECS: Registry of Toxic Effects of Chemical Substances. Not free. Skin Irrit. Skin corrosion/Irritation	∫	This symbol means, the text looking like a hyperlink, is a clickable link indeed. Of course, these are only active			
Mixture/Substance Mixture/Substance Mixture means there are two or more pure substances mixed purposely. Mixture means there are two or more pure substances mixed purposely. Mixture means there are two or more pure substances mixed purposely. Mixture means there are two or more pure substances mixed purposely. Mixture means there are two or more pure substances mixed purposely. Mixture means there are two or more pure substances mixed purposely. Mixture means there are two or more pure substances mixed purposely. Mixture means there are two or more pure substances mixed purposely. Mixture means there are two or more pure substances mixed purposely.  Acute Tox.: Acute toxicity CAS: Chemical Abstracts Service Chemical Substances Death (EPA)  DOT: US Department of Transportation ECHA European Inventory of Existing Commercial Chemical Substances EPA United States Environmental Protection Agency Eye Dam: Serious eye damage/eye irritation HSDB Hazardous Materials Identification System (USA)  IATA: International Air Transport Association IMDG: International Air Transport Association International Maritime Code for Dangerous Goods LCSO: Lethal dose, Median  LDLO Lethal dose, Median LDLO Lethal dose, Median LDLO Non Not dangerous goods (for transport) NFA: NIGH: NOSH: NOSH: NOSH: NOSH: NOSH: NOSh: NOSh: Nosberved-Adverse-Effects-Level. Highest dose which yelded no results at toxisity test  OSHA: Occupational Safety & Health PBT: Persistent, Bioaccumulative, and Toxic PEL: Permissible Exposure Limit Rept:: Recommended Exposure Limit Rept:: Reproductive toxicity, Incl. hazards to reproductive systems, and pregnancy and the offspring. RECS: Registry of Toxic Effects of Chemical Substances. Not free. Skin Irrit: Skin corrosion/irritation STOT/SE Specific target organ toxicity/Fiepeated exposure STOT/SE Specific target organ toxicity/Fiepeated exposure	U	on glass screens, not on paper.			
Mixture/Substance  Acute Tox.: Acute Tox.: Chemical Entities of Biological Interest Comptox Co	Synthetic / From	"Synthetic" means this compound has been manufactured by chemical conversion of another product of ours.			
Not including cases of two or more substances which naturally occur together and are sold unseparated Acute Tox.: Acute toxicity CAS: Chemical Abstracts Service Chebl Chemical Entities of Biological Interest Comptox CompTox Chemicals Dashboard Resource Hub (EPA)  DOT: US Department of Transportation ECHA European Chemicals Agency EINECS: European Inventory of Existing Commercial Chemical Substances EFA United States Environmental Protection Agency Eye Dam.: Serious eye damage/eye irritation HSDB Hazardous Substances Data Bank HMIS: Hazardous Materials Identification System (USA) IATA: International Air Transport Association IMDG: International Maritime Code for Dangerous Goods LCSO: Lethal concentration, Median LDSO: Lethal dose, Median LDIO: Letol dose, Leatst published NDG Not dangerous goods (for transport) NFFA: National Fire Protection Association USA NIOSH: National Institute for Occupational Safety NOAEL No-Observed-Adverse-Effects-Level. Highest dose which yelded no results at toxisity test OSHA: Occupational Safety & Health PBT: Persistent, Bioaccumulative, and Toxic PEL: Permissible Exposure Limit Repr.: Reproductive toxicity, incl. hazards to reproductive systems, and pregnancy and the offspring. RTECS: Registry of Toxic Effects of Chemical Substances. Not free. Skin Irrit: Skin corrosion/irritation STOT/SE Specific target organ toxicity/Single exposure STOT/SE Specific target organ toxicity/Single exposure TSUB Toxin and Toxin Target Database		<b>"From"</b> means the compound was extracted from biomass, whther algal, fungal, microbial or plant material			
Acute Tox.: Acute toxicity  CAS: Chemical Abstracts Service  ChEBI Chemical Entities of Biological Interest  Comptox CompTox Chemicals Dashboard Resource Hub (EPA)  DOT: US Department of Transportation  ECHA European Chemicals Agency  EINECS: European Inventory of Existing Commercial Chemical Substances  EPA United States Environmental Protection Agency  Eye Dam: Serious eye damage/eye irritation  HSDB Hazardous Substances Data Bank  HMIS: Hazardous Materials Identification System (USA)  IATA: International Air Transport Association  IMDG: International Maritime Code for Dangerous Goods  LCSO: Lethal concentration, Median  LDDO: Letal dose, Median  LDDO Letal dose, Ideats published  NDG Not dangerous goods (for transport)  NFPA: National Fire Protection Association USA  NIOSH: National Institute for Occupational Safety  NOAEL No-Observed-Adverse-Effects-Level. Highest dose which yelded no results at toxisity test  OSHA: Occupational Safety & Health  PBT: Persistent, Bioaccumulative, and Toxic  PEL: Permissible Exposure Limit  Repr.: Reproductive toxicity, incl. hazards to reproductive systems, and pregnancy and the offspring.  RTECS: Registry of Toxic Effects of Chemical Substances. Not free.  Skin Irrit: Skin corrosion/irritation  TOXIN TOXIN TOXIN TOXIN Target Database  TADB Toxin and Toxin ToxInd ToxIntoXIV/Repeated exposure  TOXIN TOXIN TOXIN TOXIN TARGET DATABASE  TOXIN TOXIN TOXIN TOXIN TARGET DATABASE  TOXIN TOXIN TOXIN TOXIN TOXIN TARGET DATABASE  TOXIN TOXIN TOXIN TOXIN TOXIN TARGET DATABASE  TOXIN TOXIN TOXIN TOXIN TOXIN TOXIN TARGET DATABASE  TOXIN TOXIN TOXIN TOXIN TOXIN TOXIN TARGET DATABASE  TOXIN TOXIN TOXIN TOXIN TARGET DATABA	Mixture/Substance	Mixture means there are two or more pure substances mixed purposely.			
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	STOT/RE	Specific target organ toxicity/Repeated exposure			
TDL0 Toxic dose, least published	T3DB	Toxin and Toxin Target Database			
	TDLO	Toxic dose, least published			













Sections 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

SDS KT5555 Lestaurtinib vers 8-2024

Page 10 of 10

# למחוק לפני שיוצרים PDF

## Appendix B: Toxicity conversion to regulatory categories

Source: https://www.ilo.org/legacy/english/protection/safework/ghs/ghsfinal/ghsc05.pdf

Data in mg/kg body weight; LD50/oral/Mouse or Rat; rats usually are twice as susceptible as mice.

Datum of Prime importance is LD50/oral/Mouse, believed to be equivalent to human toxicity.

Experiments are conducted mainly on Mice and Rats. If Monkey data are given (very rarely), these may be used as best.

If no oral data is available but subcutaneous/IV is, you can guess the <oral> by multiplying IP by 5 or IV by 10.

Exposure	CAT 1	CAT 2	CAT 3	CAT 4
		LD50/oral/mouse	LD50/oral/mouse	LD50/oral/mouse
Oral	<5	5-50	50-300	300-2000
Dermal	<50	5-200	200-1000	1000-2000
Dust/Mist mg/L (timing?)	<0.2	0.2-2	2-4	
	<b>③</b>	<b>③</b>	<b>③</b>	<b>(</b>
Packing Group	1	2	3	NDG

<Packing group equals to the worst category of the three acute ones.>









