

## Safety Data Sheet


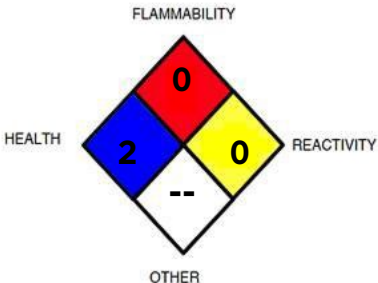
### Section 1: Product & Company Identification

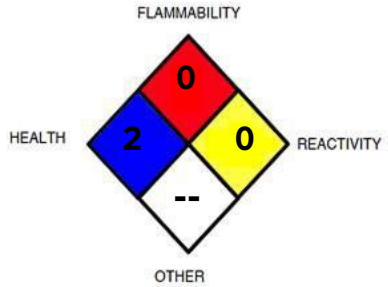
<b>Product Name:</b>	Lestaurtinib
<b>Product #:</b>	L-2374
<b>Synonyms:</b>	2,3,9S,10S,11,12R-hexahydro-10-hydroxy-10-(hydroxymethyl)-9-methyl-9,12-epoxy-1H-diindolo[1,2,3-fg:3',2',1'-kl]pyrrolo[3,4-i][1,6]benzodiazocin-1-one
<b>Supplier:</b>	AG Scientific Holdings, LLC 9950 Scripps Lake Drive, Suite 104 San Diego, CA 92131 Tele# + 858-452-9925
<b>Emergency Tele#:</b>	ChemTel, Tele# in USA 1-800-255-3924, International 1-813-248-0585

### Section 2: Composition / Information on Ingredients

Component	CAS #	EC #	% Composition
Lestaurtinib	111358-88-4	-	≥ 98

### Section 3: Hazards Identification

<b>Symbols</b>	
<b>HMIS Classification</b>	<p style="text-align: center;">FLAMMABILITY</p>  <p style="text-align: center;">HEALTH      REACTIVITY</p> <p style="text-align: center;">OTHER</p>

<b>NFPA Classification</b>	
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## Section 4: First Aid Measures

<b>General Overview:</b>	Immediately remove any clothing soiled by the product. In case of irregular breathing or respiratory arrest provide artificial respiration. May cause anemia, cough, CNS depression, drowsiness, headache, heart damage, lassitude (weakness, exhaustion), liver damage, narcosis, reproductive effects, teratogenic effects. No further relevant information available.
<b>Inhalation:</b>	In case of unconsciousness place patient stably in side position for transportation.
<b>Skin:</b>	Immediately wash with water and soap and rinse thoroughly.
<b>Eyes:</b>	Rinse opened eye for several minutes under running water. Then consult a doctor.
<b>Ingestion:</b>	Do not induce vomiting; immediately call for medical help. See section 11 for more detailed information on health effects & symptoms.

## SECTION 5: Fire Fighting Measures

<b>Flammability of the product:</b>	Product is not flammable
<b>Extinguishing Media:</b>	Use firefighting measures that suit the environment. A solid water stream may be inefficient.
<b>Hazardous thermal (de)composition products:</b>	No data available
<b>Special Fire Fighting Procedures:</b>	No data available
<b>Flash Point:</b>	No data available

## Section 6: Accidental Release Measures





<b>Personal Precautions:</b>	Not required
<b>Environmental Precautions:</b>	Do not allow to enter sewers/ground water

<b>Methods for Clean-up:</b>	Dispose contaminated material as waste according to Section 13.
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## SECTION 7: Handling & Storage

<b>Storage:</b>	Recommended storage temperature: -20°C
<b>Handling:</b>	Thorough dedusting.

## SECTION 8: Exposure controls / Personal Protection

<b>Respiratory Protection:</b>	 <p>Not required</p>
<b>Skin and Body:</b>	  <p>Protective gloves and lab coat.</p>
<b>Eyes:</b>	 <p>Not required</p>
<b>Ventilation/Engineering Measures:</b>	Ensure adequate ventilation
<b>Hygiene:</b>	Handle in accordance with good industrial hygiene and safety practice.
<b>Other:</b>	N/A

## SECTION 9: Physical and Chemical Properties

<b>Appearance &amp; Odor:</b>	Solid
<b>Formula</b>	C <sub>26</sub> H <sub>21</sub> N <sub>3</sub> O <sub>4</sub>
<b>Molecular Wt.</b>	439.5
<b>Melting Pt.</b>	No data available
<b>Boiling Pt.</b>	No data available
<b>Density:</b>	No data available
<b>Vapor Pressure:</b>	No data available
<b>Evaporation Rate:</b>	No data available
<b>Vapor Density:</b>	No data available
<b>Solubility:</b>	DMF, DMSO
<b>Flash Point:</b>	No data available
<b>Autoignition Temp:</b>	No data available

## SECTION 10: Stability and Reactivity

<b>Stability:</b>	Stable under recommended storage conditions.
<b>Hazardous decomposition products:</b>	Carbon dioxide, Carbon monoxide, Nitrogen oxides (NO <sub>x</sub> )
<b>Materials to Avoid:</b>	Strong oxidizing agents
<b>Conditions to avoid:</b>	No data available

## SECTION 11: Toxicological Information

<b>RTECS#:</b>	N/A
<b>ACUTE Toxicity:</b>	N/A
<b>CHRONIC Toxicity:</b>	N/A
<b>Chronic Exposure:</b> <b>Carcinogen:</b> <b>Mutagen:</b> <b>Teratogen:</b> <b>Reproductive:</b>	<p>IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.</p> <p>AGGIH: No component of this product present at levels greater than or equal to 0.1% is identified as probable, potential human carcinogen by ACGIH.</p> <p>NTP: No component of this product present at levels greater than or equal to 0.1% is identified as known or anticipated human carcinogen by NTP.</p> <p>OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as known or potential human carcinogen by OSHA.</p> <p>EPA: No classification on carcinogenic data is available from EPA</p>

## SECTION 12: Ecological Information

<b>Ecotoxicity:</b>	Water Hazard Class 1 (Self-Assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course, or sewage system.
<b>Mobility:</b>	No data available
<b>Persistence and degradability:</b>	No data available
<b>Bioaccumulative potential:</b>	No data available
<b>Other adverse effects:</b>	No data available
<b>Corrosivity Characteristic:</b>	No data available
<b>General Notes:</b>	To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

## SECTION 13: Disposal Considerations

<b>Residue Waste or Unused product:</b>	Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
<b>Contaminated Packaging:</b>	Disposal must be made according to official regulations.

## SECTION 14: Transportation Information

<b>UN ID#:</b>	UN2811
<b>ADR / RID (LAND):</b>	UN2811 Proper Shipping Name: Toxic solids, organic, n.o.s. (Lestaurtinib) Class: 6.1 Toxic substances Packing Group: III
<b>DOT regulations:</b>	UN2811 Proper Shipping Name: Toxic solids, organic, n.o.s. (Lestaurtinib) Class: 6.1 Toxic substances Packing Group: III  Quantity Limitations: On passenger aircraft/rail: 100 kg On cargo aircraft only: 200 kg
<b>IMDG/IMO (SEA):</b>	UN2811 Proper Shipping Name: TOXIC SOLID, ORGANIC, N.O.S. (Lestaurtinib) Class: 6.1 Toxic substances Packing Group: III  Limited quantities (LQ): 5 kg Excepted quantities (EQ): Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g

<b>IATA/DGR (AIR):</b>	<p>UN2811          Proper Shipping Name: Toxic solid, organic, n.o.s. (Lestaurtinib)          Class: 6.1 Toxic substances          Packing Group: III</p> <p>When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.</p>
<b>Special Provisions:</b>	<p>Hazard identification number (Kemler code): 60          EMS Number: F-A,S-A          Stowage Category: A</p>

## SECTION 15: Regulatory Information

<b>Health Phrases:</b>	<p>Danger!          H301 Toxic if swallowed</p>
<b>Risk Phrases:</b>	<p>P264 Wash thoroughly after handling.          P270 Do not eat, drink or smoke when using this product.</p>
<b>Safety Phrases:</b>	<p>P301+P310 If swallowed: Immediately call a poison center/doctor.          P321 Specific treatment (see on this label).          P330 Rinse mouth.          P405 Store locked up.          P501 Dispose of contents/container in accordance with local/regional/national/international regulations.</p>
<b>EU Regulations:</b>	N/A
<b>US Regulations:</b>	<p>TSCA: Not listed          California Proposition 65: No products were found</p>
<b>U.S. Federal Regulations:</b>	<p>SARA 302/304 emergency planning and notification: No products were found.          SARA 311/312 MSDS distribution-chemical inventory-hazard identification: No products were found.          SARA 313 toxic chemicals notification and release reporting: No products were found.</p> <p>Clean Water Act (CWA) 307: No products were found.          Clean Water Act (CWA) 311: No products were found.          Clean Air Act (CAA) 112 accidental release prevention: No products were found.          Clean Air Act (CAA) 112 regulated flammable substances: No products were found.          Clean Air Act (CAA) 112 regulated toxic substances: No products were found.          OSHA: Acute Tox. (Cat. 3)</p>
<b>WHMIS (Canada):</b>	N/A



## **SECTION 16: Other Information**

**LIABILITY STATEMENT:** *The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. AG Scientific shall not be held liable for any damages resulting from handling or from contact with the above product. AG Scientific products are for research purposes only. Not for human use or consumption.*