

Product Name: LDE225 Diphosphate
Revision Date: 01/10/2020

### **Product Data Sheet**

# **LDE225 Diphosphate**

Cat. No.: A3543

CAS No.: 1218778-77-8

**Formula:** C26H32F3N3O11P2

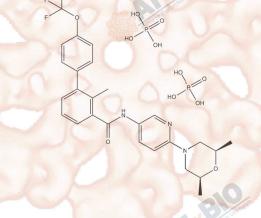
**M.Wt:** 681.49

Synonyms: LDE 225 Diphosphate; NVP-LDE 225

Diphosphate; Erismodegib

Diphosphate; LDE-225 Diphosphate

Target:Stem CellPathway:SmoothenedStorage:Store at -20°C



## Solvent & Solubility

≥27.85 mg/mL in DMSO,insoluble in EtOH,insoluble in H2O

Mass Solvent 5mg 10mg 1mg Preparing Concentration In Vitro Stock Solutions 1 mM 1.4674 mL 7.3369 mL 14.6737 mL 5 mM 0.2935 mL 1.4674 mL 2.9347 mL 0.1467 mL 0.7337 mL 10 mM 1.4674 mL

Please refer to the solubility information to select the appropriate solvent.

# **Biological Activity**

Smo antagonist

Shortsummary

IC <sub>50</sub> & Target	210	
In Vitro	Cell Viability Assay	ACCES TO A POLICE OF THE POLIC
	Cell Line:	primary CD34+ CP-CML cells
	Preparation method:	The solubility of this compound in DMSO is > 27.85 mg/mL. General tips for
		obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes
		and/or shake it in the ultrasonic bath for a while. Stock solution can be stored
		below -20°C for several months.

	Reacting conditions:	10 nM, 100 nM, 72 hours
	Applications:	LDE225 (10 nM, 100 nM, 72 hours) inhibited downstream Hh signaling in
		primary CD34+ CP-CML cells. LDE225 (0.5-100 nM, 72h) significantly reduced
		colony forming cell (CFC) re-plating efficiency of primitive human CP-CML
	B10	cells. LDE225 (10 nM) alone or in combination with nilotinib (5 μM) significantly
		reduced LTC-IC numbers in primary CD34+ CP-CML samples.
	Animal experiment	
	Animal models:	CP-CML murine model, BCR-ABL expressing mice
	Dosage form:	80 mg/kg by gavage, daily
	Applications:	Treatment of ScI-tTa-BCR-ABL mice with LDE225+nilotinib resulted in
		inhibition of Gli1 in CP-CML BM LTHSC. LDE225 in combination with nilotinib
In Vivo		on human CML LSC was capable of engrafting immunodeficient mice.
		LDE225+nilotinib administration significantly reduced leukaemia stem and
		progenitor cells in the spleen of BCR-ABL expressing mice.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may
	the Unitravia	slightly differ with the theoretical value. This is caused by an experimental
		system error and it is normal.

### **Product Citations**

See more customer validations on www.apexbt.com.

### References

[1]. Irvine D A, Zhang B, Kinstrie R, et al. Deregulated hedgehog pathway signaling is inhibited by the smoothened antagonist LDE225 (Sonidegib) in chronic phase chronic myeloid leukaemia[J]. Scientific reports, 2016, 6: 25476.

### Caution

#### FOR RESEARCH PURPOSES ONLY.

#### NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

## **APExBIO Technology**

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