



LKT Laboratories, Inc.

NVP-LDE225 Diphosphate

Phone: 888-558-5227
651-644-8424
Fax: 888-558-7329
Email: getinfo@lktlabs.com
Web: lktlabs.com

Product Information

Product ID N8663

CAS No. 1218778-77-8

Chemical Name

Synonym Erismodegib, Sonidegib, LDE225, LDE 225, NVP-LDE-225, NVP LDE225

Formula $C_{26}H_{26}F_3N_3O_3 \cdot 2H_3PO_4$

Formula Wt. 681.49

Melting Point

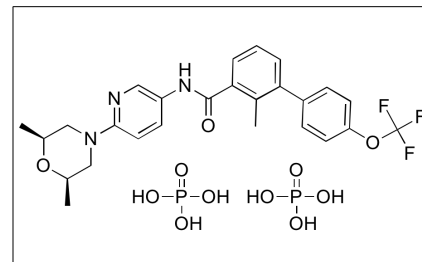
Purity $\geq 98\%$

Solubility 10 mM in DMSO

Store Temp $-20^{\circ}C$

Ship Temp Ambient

Description NVP-LDE225 is an inhibitor of Smo that prevents hedgehog (Hh) signaling; it exhibits anticancer chemotherapeutic and anti-metastatic activities. NVP-LDE225 is currently approved for the treatment of basal cell carcinoma but is also in clinical trials as a potential treatment for other cancers. In renal cell carcinoma cells, NVP-LDE225 inhibits cellular proliferation, migration, and invasion; in animal models, it increases survival rates and decreases tumor growth. NVP-LDE225 also inhibits cell viability in prostate cancer cells. In animal models of prostate cancer, this compound inhibits the epithelial-to-mesenchymal transition (EMT), induces apoptosis, decreases the expression of Bcl-2, Bcl-xl, XIAP, and survivin, and increases the expression of Bax and Bak; it also inhibits tumor growth. Smo antagonists such as NVP-LDE225 also cause alopecia, likely due to alteration in hair follicle embryology.



Bulk quantities available upon request

Product ID	Size
N8663	1 mg
N8663	5 mg
N8663	10 mg
N8663	25 mg

References Ferguson J, Hannam S, Toholka R, et al. Hair Loss and Hedgehog Inhibitors - A Class Effect? Br J Dermatol. 2014 Dec 18. [Epub ahead of print]. PMID: 25523648.

D'Amato C, Rosa R, Marciano R, et al. Inhibition of Hedgehog signalling by NVP-LDE225 (Erismodegib) interferes with growth and invasion of human renal cell carcinoma cells. Br J Cancer. 2014 Sep 9;111(6):1168-79. PMID: 25093491.

Nanta R, Kumar D, Meeker D, et al. NVP-LDE-225 (Erismodegib) inhibits epithelial-mesenchymal transition and human prostate cancer stem cell growth in NOD/SCID IL2R γ null mice by regulating Bmi-1 and microRNA-128. Oncogenesis. 2013 Apr 8;2:e42. PMID: 23567619.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.