LKT Laboratories, Inc.

NVP-LDE225

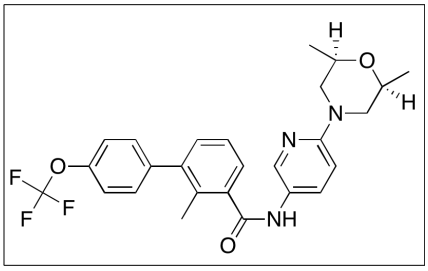
Phone: 888-558-5227
651-644-8424
Fax: 888-558-7329
Email: getinfo@lktlabs.com
Web: lktlabs.com

Product Information

Product ID N859614
CAS No. 956697-53-3
Chemical Name

Synonym Erismodegib, Sonidegib, LDE225

Formula $C_{26}H_{26}F_3N_3O_3$
Formula Wt. 485.51
Melting Point
Purity ≥98%
Solubility DMSO:97 mg/mL (199.79 mM)
Ethanol:97 mg/mL warmed (199.79 mM)
Water insoluble
Store Temp -20°C
Ship Temp Ambient



Bulk quanitites available upon request

Product ID	Size
N859614	5 mg
N859614	10 mg
N859614	25 mg

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.

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 IL2Rγ null mice by regulating Bmi-1 and microRNA-128. Oncogenesis. 2013 Apr 8;2:e42. PMID: 23567619.