

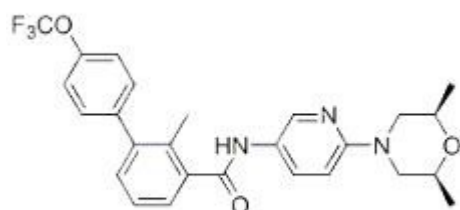
Cat No. 43-X52

LDE225

2 mg

LDE225 (NPV-LDE225) is a novel and specific small molecule Smoothened (Smo) inhibitor with an IC₅₀ of 11nM. LDE225 has been shown to potentially inhibit Hh- and Smo-dependent proliferation in vivo. It also induced the regression of preformed basaloid lesions with an IC₅₀ of <150 nmol/l and almost complete regression at 1.5 μmol/l. Topical application of a 1% LDE225 solution to depilated skin of C57/BL6 mice completely inhibited hair growth during anagen phase as well as the expression of the Hh-pathway target genes and partial inhibition was obtained when applying a 0.3% solution.

TECHNICAL INFORMATION



Other Names: BCP000600/NVP-LDE225/LDE225

Chemical Formula: C₂₆H₂₆F₃N₃O₃

CAS Number: 956697-53-3

Molecular Weight: 485.5

Purity: >99%

Appearance: white solid

Solubility: DMSO



For research purposes only

STORAGE AND HANDLING

Storage: Store at 4°C and protected from light. Following reconstitution, store aliquots at -20°C.

Stability: Stock solutions stable at -20°C for up to 2 years.

Shipping Conditions: Shipped at room temperature.

PRODUCT USE

Soluble in DMSO. If precipitate is observed, vortex for 5 minutes.

REFERENCES

1. Buonamici et al. (2010) Interfering with resistance to smoothened antagonists by inhibition of the PI3K pathway in medulloblastoma. *Sci Transl Med.* 2 (51):51ra70.
2. Skvara et al. (2011) Topical treatment of Basal cell carcinomas in nevoid Basal cell carcinoma syndrome with a smoothened inhibitor. *J Invest Dermatol.* 131 (8):1735-44.
3. Metcalfe et al. (2011) Hedgehog fights back: mechanisms of acquired resistance against Smoothened antagonists. *Cancer Res.* 71(15):5057-61.