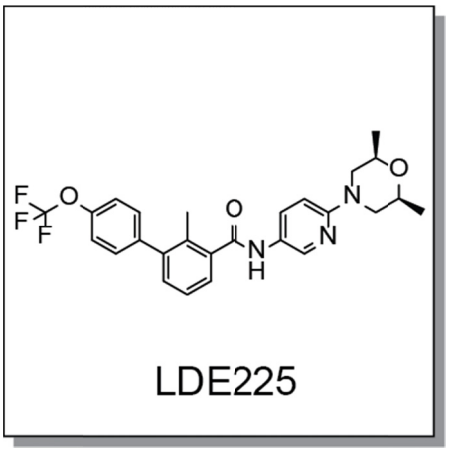
Product Specification Sheet

Product Name: SHH Antagonist LDE225

Catalog Number: C5332-2 (powder)
C5332-2s (10 mM in DMSO)

Package Size: 2 mg



Technical information:

Chemical Formula:	$C_{26}H_{26}F_3N_3O_3$
CAS #:	956697-53-3
Molecular Weight:	485.50
Purity:	>98%
Formulation:	White solid
Solubility:	Soluble in DMSO up to 50 mM
Chemical Name:	N-(6-((2S,6R)-2,6-dimethylmorpholino)pyridin-3-yl)-2-methyl-4'-(trifluoromethoxy)biphenyl-3-carboxamide
Storage:	Store solid powder at 4°C desiccated; Store DMSO solution at -20°C.

Handling:

- For C5332-2 (powder), add 412 µL of DMSO to make 10 mM solution.
- For C5332-2s, before open the vial, centrifuge the vial at 500rpm x 1 min in a 50 mL conical tube to ensure full recovery of sample.

Biological Activity: LDE225 is a novel and specific, orally bioavailable Smo inhibitor with an IC50 of 11 nM. It 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 nM and almost complete regression at 1.5 µM. 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 (Gli1, Gli2, Sox9, and N-Myc) and partial inhibition was obtained when applying a 0.3% solution.

Reference:

1. Shifeng Pan et al. Discovery of NVP-LDE225, a Potent and Selective Smoothened Antagonist. ACS Med. Chem. Lett., 2010, 1 (3), pp 130–134.

For Technical Support: technical@cellagentech.com

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