# 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_{3}N_{3}O_{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-(12S,6R)-2,6-dimethylmorpholinopyridin-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:

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