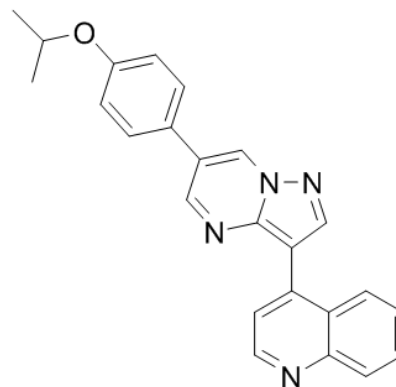


Product Name : DMH-1
Cat. No. : PC-42935
CAS No. : 1206711-16-1
Molecular Formula : C₂₄H₂₀N₄O
Molecular Weight : 380.4418
Target : TGF beta Receptor (TGFBR)
Solubility : DMSO: 11.5 mg/mL



Biological Activity

DMH1 is a potent, selective bone morphogenetic protein receptor (BMP) inhibitor with IC₅₀ of 27/107.9/<5/47.6 nM for ALK1/ALK2/ALK3/ALK6, respectively; significantly reduces the percentage of cells expressing the pluripotency marker proteins OCT4 and Nanog in both SM3 and CA6 cells, induces regulation of pluripotency and neural precursor marker mRNAs; reduces the canonical phosphorylation of Smads 1,5 and 9, inhibits HeLa and MCF-7 cell proliferation; significantly reduces the tumor growth in human lung cancer xenograft model.

References

- Hao J, et al. ACS Chem Biol. 2010 Feb 19;5(2):245-53.
Cross EE, et al. ACS Chem Biol. 2011 Sep 16;6(9):952-61.
Hao J, et al. PLoS One. 2014 Mar 6;9(6):e90748.
Engers DW, et al. Bioorg Med Chem Lett. 2013 Jun 1;23(11):3248-52.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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