

Purmorphamine

Catalog No: tcsc1135



Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg



Specifications

CAS No:

483367-10-8

Formula:

$C_{31}H_{32}N_6O_2$

Pathway:

Stem Cell/Wnt;Autophagy

Target:

Smo;Autophagy

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Alternative Names:

Shh Signaling Antagonist VI

Observed Molecular Weight:

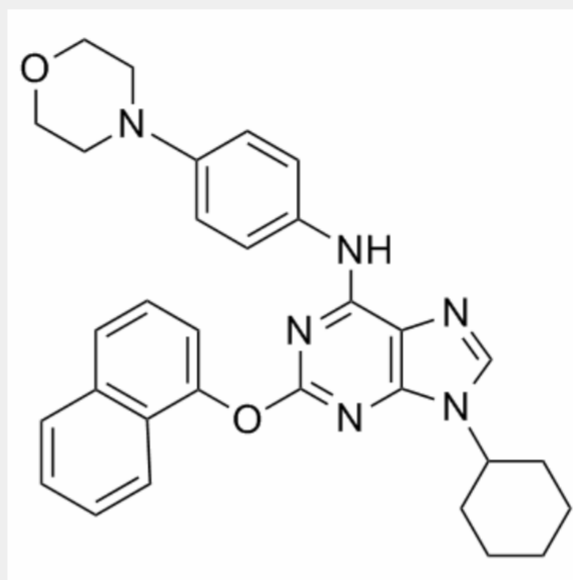
520.62

Product Description

Purmorphamine is a **smoothened receptor** agonist with an **EC₅₀** of 1 μ M.

IC50 & Target: IC50: 1.5 μ M (Smoothened)

In Vitro: Purmorphamine (10, 20 μ M) in combination with sirolimus significantly decreases cell numbers according to the MTT assay. Purmorphamine induces up-regulation of alkaline phosphatase activity and expression of RUNX-2 at day 14. Up-regulation of osteocalcin is detected at the 3 and 5 μ M doses of purmorphamine on day 14 post-induction. Matrix mineralization remains unchanged in the presence or absence of purmorphamine^[1]. Purmorphamine induces STAT3 phosphorylation in mouse ES cell line ES14 and mesenchymal stem cell line C3H10T1/2^[2]. Purmorphamine up-regulates the expression of markers of the osteoblast phenotype-ALP activity and bone-like nodule formation in human bonemarrow mesenchymal cells^[3].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!