Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

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

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Purmorphamine is a **smoothened receptor** agonist with an **EC_{50}** of 1 μM.

IC50 & Target: IC50: 1.5 μM (Smoothened)

In Vitro: Purmorphamine (10, 20 μM) 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 μM 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 expressionof markers of the osteoblast phenotype-ALP activity and bone-like nodule formationd-in human bonemarrow mesenchymal cells[3].