

Vismodegib

Catalog No: tcsc0255



Available Sizes

Size: 10mg

Size: 50mg

Size: 100mg

Size: 200mg

Size: 500mg

Size: 1g

Size: 2g

Size: 5g



Specifications

CAS No:

879085-55-9

Formula:

$C_{19}H_{14}Cl_2N_2O_3S$

Pathway:

Stem Cell/Wnt;Autophagy

Target:

Hedgehog;Autophagy

Purity / Grade:

>98%

Solubility:

H2O :

Alternative Names:

GDC-0449

Observed Molecular Weight:

421.3

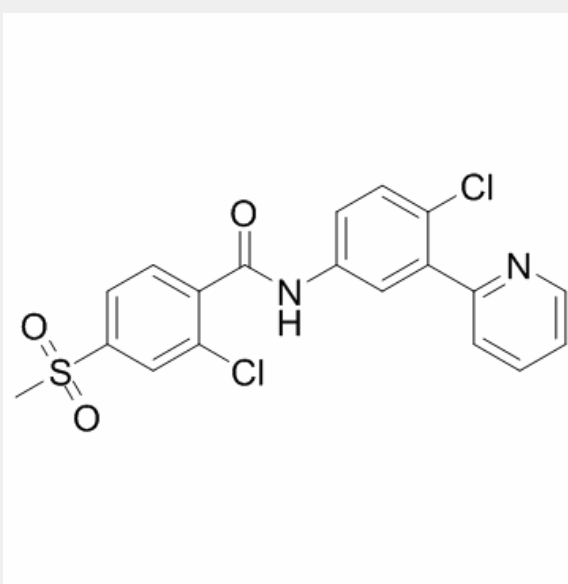
Product Description

Vismodegib is an orally active **hedgehog** pathway inhibitor with an **IC₅₀** of 3 nM and also inhibits P-gp, ABCG2 with IC₅₀ values of 3.0 μM and 1.4 μM, respectively.

IC50 & Target: IC50: 3 nM (hedgehog), 3.0 μM (P-gp), 1.4 μM (ABCG2)

In Vitro: Vismodegib (HhAntag691) is an ABCG2 inhibitor and can increase the effective intracellular concentration of mitoxantrone, another ABCG2 substrate, through blocking its export in HEK293 cells. Vismodegib (HhAntag691, 10 μM), resensitizes MDCKII/Pgp cells and MDCKII/MRP1 cells to colchicine treatment^[2]. Vismodegib (25 μM or 50 μM) concentration dependently inhibits HCC and H1339 cells^[3].

In Vivo: Vismodegib is a novel small molecule HPI, often used for clinical trials^[1]. Vismodegib (0.3 to 75 mg/kg, p.o.) is highly efficacious in medulloblastoma allograft tumors. Vismodegib (> 46 mg/kg, p.o.) causes growth delay in patient-derived colorectal xenografts^[4].



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