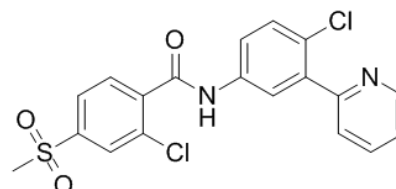


Product Name : Vismodegib
Cat. No. : PC-42586
CAS No. : 879085-55-9
Molecular Formula : C₁₉H₁₄Cl₂N₂O₃S
Molecular Weight : 421.2971
Target : Smoothened (Smo)
Solubility : 10 mM in DMSO



Biological Activity

Vismodegib (GDC-0449) is a potent, selective, orally bioavailable **smoothened (Smo)** inhibitor, blocks Shh signaling with EC₅₀ of 40 nM.

Vismodegib (GDC-0449) inhibits proliferation, increases apoptosis, and alters morphology, suppresses the Shh pathway in mouse medulloblastoma in vivo.

Vismodegib (GDC-0449) also is a potent inhibitor of ABCG2/BCRP and ABCB1/Pgp.

Vismodegib (GDC-0449) is the first Hedgehog signaling pathway targeting agent to gain FDA approval.

References

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Robarge KD, et al. *Bioorg Med Chem Lett*. 2009 Oct 1;19(19):5576-81.

Dijkgraaf GJ, et al. *Cancer Res*. 2011 Jan 15;71(2):435-44.

Yauch RL, et al. *Science*. 2009 Oct 23;326(5952):572-4.

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

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