

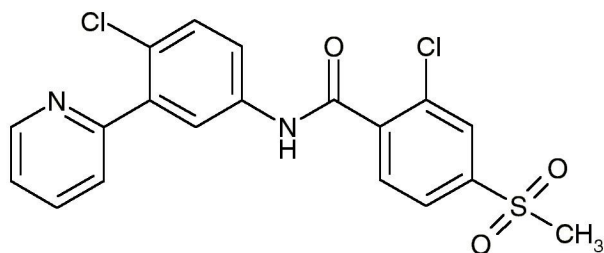
Cat No. 17-G94

GDC0449 (Vismodegib)

5 mg

GDC0449 is a potent hedgehog (Hh) signaling pathway inhibitor with an IC₅₀ of 3nM. The Hedgehog signaling pathway plays an important role in tissue growth and repair. GDC0449 works by blocking the activities of the Hedgehog-ligand cell surface receptors PTCH or SMO and suppresses Hedgehog signaling. It has been shown to inhibit the growth of primary pancreatic xenographs without non-specifically inhibiting pancreatic cell proliferation *in vitro*. GDC0449 has also been shown to inhibit ABCG2, Pgp, and MRP1-important ABC transporters associated with MDR. It has also been used to treat medullablastoma in animal models.

TECHNICAL INFORMATION



Other Names: GDC-0449, Vismodegib, HhAntag691

Chemical Formula: C₁₉H₁₄Cl₂N₂O₃S

CAS Number: 879085-55-9

Molecular Weight: 421.30

Purity: >99%

Appearance: crystalline solid

Solubility: DMSO



For research purposes only

STORAGE AND HANDLING

Storage: Store at 4°C and protected from light. Following reconstitution, store aliquots at -20°C.

Stability: Stock solutions stable at -20°C for up to 2 years.

Shipping Conditions: Shipped at room temperature.

PRODUCT USE

Soluble in DMSO at 200mg/ml. If precipitate is observed, vortex for 5 minutes. For most cells, the maximum tolerance to DMSO is less than 0.5%.

REFERENCES

1. Rudin et al. (2009) Treatment of medulloblastoma with hedgehog pathway inhibitor GDC-0449. *N Engl J Med.* 361(12):1173-8.
2. Zhang et al. (2009) Hedgehog pathway inhibitor HhAntag691 is a potent inhibitor of ABCG2/BCRP and ABCB1/Pgp. *Neoplasia.* 11(1):96-101.
3. Giannetti et al. (2011) Identification, characterization, and implications of species-dependent plasma protein binding for the oral Hedgehog pathway inhibitor vismodegib (GDC-0449). *J Med Chem.* 54(8):2592-601.