

Product Name : Idelalisib

Synonyms : CAL-101;GS-1101;GS1101;GS1101

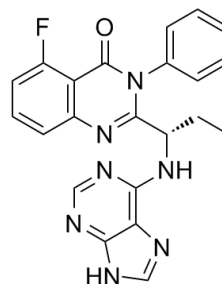
Cat No. : M16323

CAS Number : 870281-82-6

Molecular Formula : C₂₂H₁₈N₇O

Formula Weight : 415.42

Chemical Name : 4(3H)-Quinazolinone, 5-fluoro-3-phenyl-2-[(1S)-1-(9H-purin-6-ylamino)propyl]-



Description : Idelalisib (CAL-101, GS-1101) is a potent, selective inhibitor of PI3K p110δ with IC₅₀ of 2.5 nM, 40- to 300-fold selectivity over other class I PI3Ks (p110α/βγ, IC₅₀=820/565/89nM), and 400- to 4000-fold over C2β, hVPS34, DNA-PK, and mTOR; blocks FcRI p110δ-mediated CD63 expression in basophils with an EC₅₀ of 8 nM; blocks constitutive PI3K signaling, resulting in decreased phosphorylation of Akt and other downstream effectors, an increase in PARP and caspase cleavage and an induction of apoptosis in multiple B-cell malignancies. Blood Cancer Approved

Pathway : PI3K/Akt/mTOR signaling

Target : PI3K

Receptor : hVps34;p110α;p110β;p110γ;p110δ

Solubility : DMSO: ≥ 59.7 mg/mL

SMILES : O=C1N(C2=CC=CC=C2)C([C@@H](NC3=C4N=CNC4=NC=N3)CC)=NC5=C1C(F)=CC=C5

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Hoellenriegel J, et al. Blood. 2011 Sep 29;118(13):3603-12.
2. Herman SE, et al. Blood. 2010 Sep 23;116(12):2078-88.
3. Lannutti BJ, et al. Blood. 2011 Jan 13;117(2):591-4.
4. Bodo J, et al. Br J Haematol. 2013 Oct;163(1):72-80.