CD BioGlyco
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Product Information

PI3K inhibitor CAL-101, Purity ≥98%

Cat. No.: X24-05-ZQ081

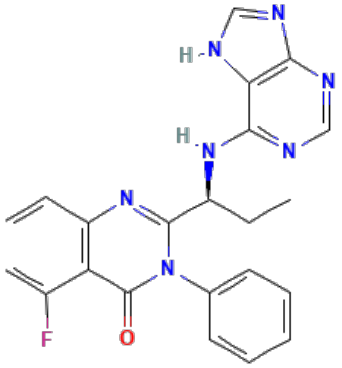
Size: 10 mg; 25 mg; 50 mg; 100 mg

CAS Number: 870281-82-6

Compound CID: 11625818

Synonym: 870281-82-6; CAL101; GS-1101; Idelalisib; PI3K inhibitor

This product is for research use only and is not intended for diagnostic use.



Product Information

Description	CAL-101, soluble in warmed DMSO and ethanol and insoluble in water, is a potent compound that inhibits PI3 kinase activity. It targets p110β, p110γ, C2β, DNA-PK, hVPS34, mTOR, p110α, p110δ, PIP5Kα, and PIP5Kβ.
Molecular Weight	415.4
Molecular Formula	$C_{22}H_{18}FN_7O$
Targets	p110β: 565 nM; p110γ: 89 nM; C2β: >1 μM; DNA-PK: 6.729 μM; hVPS34: 978 nM; mTOR: >1 μM; p110α: 820 nM; p110δ: 2.5 nM; PIP5Kα: >1 μM; PIP5Kβ: >1 μM
IUPAC Name	5-Fluoro-3-phenyl-2-[(1*S*)-1-(7H-purin-6-ylamino)propyl]quinazolin-4-one
InChI	InChI=1S/C22H18FN7O/c1-2-15(28-20-18-19(25-11-24-18)26-12-27-20)21-29-16-10-6-9-14(23)17(16)22(31)30(21)13-7-4-3-5-8-13/h3-12,15H,2H2,1H3,(H2,24,25,26,27,28)/t15-/m0/s1
InChI Key	IFSDAJWBUCMOAH-HNNXBMFYSA-N
Canonical SMILES	CCC(C1=NC2=C(C(=CC=C2)F)C(=O)N1C3=CC=CC=C3)NC4=NC=NC5=C4NC=N5
Isomeric SMILES	CC[C@@H](C1=NC2=C(C(=CC=C2)F)C(=O)N1C3=CC=CC=C3)NC4=NC=NC5=C4NC=N5
Form	Lyophilized powder
Purity	≥98%
Solubility	Warmed DMSO: 76 mg/mL (182.94 mM); Water: Insoluble; Ethanol: 21 mg/mL (50.55 mM)
Identity	Confirmed by NMR/HPLC/MS.
Stability	The product is stable for three years when stored at the recommended temperature in lyophilized powder.
Applications	CAL-101, known as idelalisib, is utilized to study its role as a PI3K δ inhibitor, especially in B-cell malignancies.

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Storage	Store at -20ºC.