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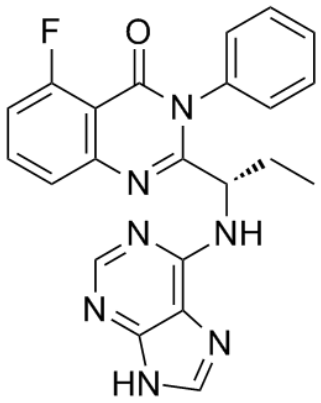
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	Idelalisib
Cat. No.	:	PC-43336
CAS No.	:	870281-82-6
Molecular Formula	:	$C_{22}H_{18}FN_7O$
Molecular Weight	:	415.423
Target	:	PI3K
Solubility	:	DMSO: ≥ 59.7 mg/mL



Biological Activity

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. Idelalisib (CAL-101, GS-1101) blocks FcεRI p110δ-mediated CD63 expression in basophils with an EC50 of 8 nM. Idelalisib (CAL-101, GS-1101) 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.

References

Hoellenriegel J, et al. ***Blood.*** 2011 Sep 29;118(13):3603-12.

Herman SE, et al. ***Blood.*** 2010 Sep 23;116(12):2078-88.

Lannutti BJ, et al. ***Blood.*** 2011 Jan 13;117(2):591-4.

Bodo J, et al. ***Br J Haematol.*** 2013 Oct;163(1):72-80.

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