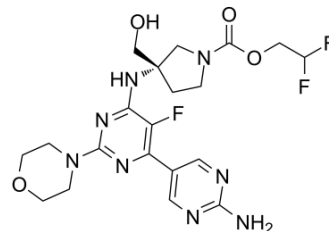


PF-06843195

Cat. No.:	HY-131972
CAS No.:	2067281-51-8
Molecular Formula:	C ₂₀ H ₂₅ F ₃ N ₉ O ₄
Molecular Weight:	498.46
Target:	PI3K
Pathway:	PI3K/Akt/mTOR
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	PF-06843195 is a highly selective PI3K α inhibitor with an IC ₅₀ of 18 nM in Rat1 fibroblasts. The K _i s of PF-06843195 for PI3K α and PI3K δ in biochemical kinase assay are less than 0.018 nM and 0.28 nM, respectively. PF-06843195 has great suppression of the PI3K/mTOR signaling pathway and durable antitumor efficacy ^[1] .			
IC₅₀ & Target	PI3K α 18 nM (IC ₅₀ , in Rat1 fibroblasts)	PI3K β 360 nM (IC ₅₀ , in Rat1 fibroblasts)	PI3K δ 160 nM (IC ₅₀ , in Rat1 fibroblasts)	PI3K α 0.018 nM (K _i)
	PI3K δ 0.28 nM (K _i)			
In Vitro	PF-06843195 inhibits the breast cancer cell lines MCF7 and T47D proliferation with IC ₅₀ s of 62 nM and 32 nM, respectively ^[1] . PF-06843195 inhibits pAKT (T308) in MCF7 and T47D cells with IC ₅₀ s of 7.8 nM and 8.7 nM, respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			
In Vivo	In rats, PF-06843195 can rapidly and quantitatively transform from PF-06862309 ^[1] . PF-06843195 exhibits oral bioavailability (rat 25 %) following oral administration (rat 10 mg/kg) ^[1] . PF-06843195 exhibits a moderate half-life (rat 3.6 h) due to high plasma clearance (30 mL/min/kg) combined with large volumes of distribution (3.0 L/kg) following intravenous administration (rat 2 mg/kg) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			
	Animal Model:	Male Wistar Han Rats ^[1]		
	Dosage:	2 mg/kg (intravenous) and 10 mg/kg (oral gavage)(Pharmacokinetic Analysis)		
	Administration:	Intravenous (IV) or oral gavage (PO)		
	Result:	T _{1/2} of 3.6 h for rats.		

REFERENCES

Caution: Product has not been fully validated for medical applications. For research use only.

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