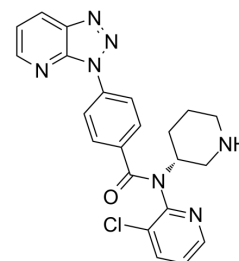


PF-06446846 hydrochloride

Cat. No.:	HY-120088A
CAS No.:	1632250-50-0
Molecular Formula:	C ₂₂ H ₂₁ Cl ₂ N ₇ O
Molecular Weight:	470.35
Target:	Ser/Thr Protease
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 2 years; -20°C, 1 year (sealed storage, away from moisture)



H-Cl

SOLVENT & SOLUBILITY

In Vitro

DMSO : 250 mg/mL (531.52 mM; Need ultrasonic)
H₂O : 100 mg/mL (212.61 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.1261 mL	10.6304 mL	21.2608 mL
	5 mM	0.4252 mL	2.1261 mL	4.2522 mL
	10 mM	0.2126 mL	1.0630 mL	2.1261 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: PBS
Solubility: 100 mg/mL (212.61 mM); Clear solution; Need ultrasonic and warming and heat to 60°C
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.08 mg/mL (4.42 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.08 mg/mL (4.42 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (4.42 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

PF-06446846 hydrochloride is an orally active and highly selective inhibitor of translation of Proprotein convertase subtilisin/kexin type 9 (PCSK9). PF-06446846 hydrochloride inhibits PCSK9 by inducing the ribosome to stall around codon 34^[1].

IC₅₀ & Target

PCSK9^[1]

In Vitro	PF-06446846 inhibits the secretion of PCSK9 by Huh7 cells with an IC ₅₀ of 0.3 μM ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	PF-06446846 (oral gavage; 5-50 mg/kg/day for 14 days) lowers plasma PCSK9 in a dose-dependent manner and lowers total cholesterol levels ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
Animal Model:	Male Sprague-Dawley (CrI:CD [SD] rats, 6-8 wk old at initiation of dosing) ^[1]
Dosage:	5, 15, and 50 mg/kg
Administration:	Oral gavage; daily for 14 days
Result:	Lowered plasma PCSK9 in a dose-dependent manner and lowered total cholesterol levels.

CUSTOMER VALIDATION

- Protein Cell. 2021 Apr;12(4):240-260.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Lintner NG, et al. Selective stalling of human translation through small-molecule engagement of the ribosome nascent chain. PLoS Biol. 2017 Mar 21;15(3):e2001882.

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

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