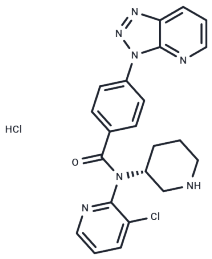
Data Sheet (Cat.No.T16491)

TargetMol

PF-06446846 hydrochloride

Chemical Properties



CAS No. : 1632250-50-0

Formula: C22H20ClN7O.XHCl

Molecular Weight: 470.36

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	PF-06446846 hydrochloride, an orally active and highly selective inhibitor, targets Proprotein Convertase Subtilisin/Kexin type 9 (PCSK9) translation by inducing ribosomal stalling at approximately codon 34, effectively suppressing PCSK9 expression.
Targets(IC50)	Others
In vitro	PF-06446846 suppresses the secretion of PCSK9 by Huh7 cells (IC50: 0.3 μM)[1].
In vivo	PF-06446846 (oral gavage; 5-50 mg/kg/day for 14 days) lowers plasma PCSK9 in a dose-dependent manner. It also decreases total cholesterol levels[1].

Solubility Information

Solubility	H2O: 90.00 mg/mL (191.34 mM),Sonication is recommended. DMSO: 225.00 mg/mL (478.36 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5.00 mg/mL (10.63 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.126 mL	10.6302 mL	21.2603 mL
5 mM	0.4252 mL	2.126 mL	4.2521 mL
10 mM	0.2126 mL	1.063 mL	2.126 mL
50 mM	0.0425 mL	0.2126 mL	0.4252 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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.