

PF-06471553

## Chemical Properties

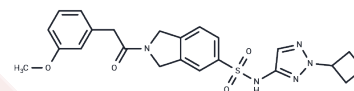
CAS No. : 1808094-07-6

Formula: C<sub>23</sub>H<sub>25</sub>N<sub>5</sub>O<sub>4</sub>S

Molecular Weight: 467.54

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-06471553 is an effective and selective inhibitor of monoacylglycerol acyltransferase 3 (IC <sub>50</sub> : 92 nM).
Targets(IC <sub>50</sub> )	Others,Acyltransferase
In vitro	PF-06471553 shows inhibitory activity against MGAT3 in HEK-293 cells with an IC <sub>50</sub> of 205 nM (pIC <sub>50</sub> , 6.69). PF-06471553 displays >160 fold in vitro selectivity for MGAT3 over DGAT1 (IC <sub>50</sub> , >50 μM), DGAT2 (IC <sub>50</sub> , >100 μM), MGAT1 (IC <sub>50</sub> , 14.9 μM), and MGAT2 (IC <sub>50</sub> , 19.8 μM) [1].
In vivo	In hMGAT3 mice, PF-06471553 (200 mg/kg, p.o.) in addition to (DGAT1 and DGAT2) inhibitors display additional inhibition of glycerol-d5 incorporated triolein. It has no effect on WT mice[1].

## Solubility Information

Solubility	DMSO: 150 mg/mL (320.83 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1389 mL	10.6943 mL	21.3885 mL
5 mM	0.4278 mL	2.1389 mL	4.2777 mL
10 mM	0.2139 mL	1.0694 mL	2.1389 mL
50 mM	0.0428 mL	0.2139 mL	0.4278 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

Huard K, et al. Discovery of Selective Small Molecule Inhibitors of Monoacylglycerol Acyltransferase 3. J Med Chem. 2015 Sep 24;58(18):7164-72.

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