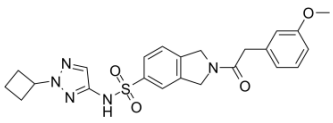
PF-06471553

Cat. No.:	HY-108339
CAS No.:	1808094-07-6
Molecular Formula:	$C_{23}H_{25}N_5O_4S$
Molecular Weight:	467.54
Target:	Acyltransferase
Pathway:	Metabolic Enzyme/Protease
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 150 mg/mL (320.83 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
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

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

BIOLOGICAL ACTIVITY

Description	PF-06471553 is a potent, selective and orally available **monoacylglycerol acyltransferase 3 (MGAT3)** inhibitor, with an **IC_{50}** of 92 nM.
IC_{50} & Target	IC50: 92 nM (MGAT3)[1]
In Vitro	PF-06471553 (6f) is a potent and selective monoacylglycerol acyltransferase 3 (MGAT3) inhibitor, with an IC_{50} of 92 nM, and shows >160 fold in vitro selectivity for MGAT3 over DGAT1 (IC_{50}, >50 μM), DGAT2 (IC_{50}, >100 μM), MGAT1 (IC_{50}, 14.9 μM), and MGAT2 (IC_{50}, 19.8 μM). PF-06471553 exhibits inhibitory activity against MGAT3 in HEK-293 cells with an IC_{50} of 205 nM (pIC_{50}, 6.69)[1].
In Vivo	PF-06471553 (200 mg/kg, p.o.) in addition with (DGAT1 and DGAT2) inhibitors shows additional inhibition of glycerol-d5 incorporated triolein in hMGAT3 mice, and with no effect on WT mice[1].

REFERENCES

[1]. 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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