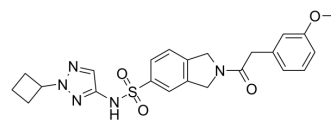


PF-06471553

| | | | |
|---------------------------|---|-------|----------|
| Cat. No.: | HY-108339 | | |
| CAS No.: | 1808094-07-6 | | |
| Molecular Formula: | C ₂₃ H ₂₅ N ₅ O ₄ S | | |
| 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.

| | Solvent Concentration | Mass | | |
|------------------------------|--------------------------|-----------|------------|------------|
| | | 1 mg | 5 mg | 10 mg |
| Preparing Stock Solutions | 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. |
| IC₅₀ & Target | IC ₅₀ : 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] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. |
| 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] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

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.

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

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