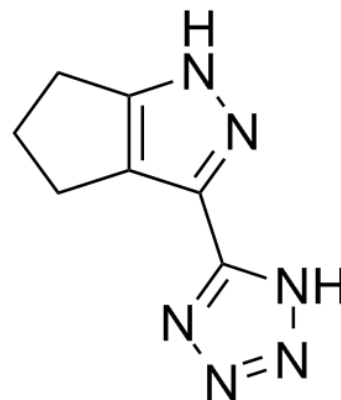


**Product Name** : MK-0354  
**Cat. No.** : PC-43317  
**CAS No.** : 851776-28-8  
**Molecular Formula** : C<sub>7</sub>H<sub>8</sub>N<sub>6</sub>  
**Molecular Weight** : 176.1786  
**Target** : GPR109A (Niacin Receptor 1)  
**Solubility** : DMSO: ≥ 36 mg/mL



### Biological Activity

MK-0354 is a potent, selective niacin receptor **GPR109A** partial agonist with EC<sub>50</sub> of 1.65 and 1.08 μM for hGPR109A and mGPR109A in the whole cell cAMP assays.

MK-0354 shows no interaction with any other target in a panel of over 120 other proteins.

MK-0354 is a competitive inhibitor of 3H-nicotinic acid binding to hGPR109a with K<sub>i</sub> of 505 nM, fully inhibits isoproterenol stimulated lipolysis in human adipocytes with IC<sub>50</sub> of 3.1 μM.

MK-0354 also is a competitive antagonist of nicotinic acid-induced MAPK signaling in cells overexpressing either mGPR109a or hGPR109a.

MK-0354 possesses plasma FFA lowering effects in mice comparable to those of nicotinic acid, does not induce vasodilation.

### References

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Lai E, et al. *J Clin Lipidol.* 2008 Oct;2(5):375-83.

Walters RW, et al. *J Clin Invest.* 2009 May;119(5):1312-21.

Gaidarov I, et al. *Cell Signal.* 2013 Oct;25(10):2003-16.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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