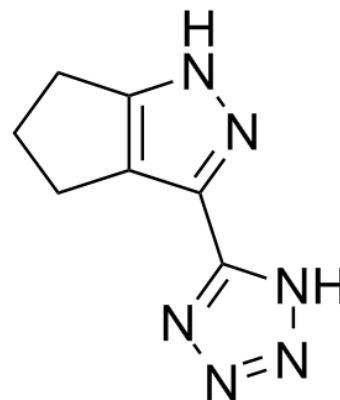


Product Name : MK-0354
Cat. No. : PC-43317
CAS No. : 851776-28-8
Molecular Formula : C₇H₈N₆
Molecular Weight : 176.1786
Target : GPR109A (Niacin Receptor 1)
Solubility : DMSO: ≥ 36 mg/mL



Biological Activity

MK-0354 is a potent, selective niacin receptor **GPR109A** partial agonist with EC₅₀ 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_i of 505 nM, fully inhibits isoproterenol stimulated lipolysis in human adipocytes with IC₅₀ 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.

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

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