Product Data Sheet

Product Name: AP5
Cat. No.: GC35364

Chemical Properties

Cas. No.	1623194-37-5		
SMILES	FC1=CC(C2=CC(OC)=NC=C2)=CC=C1[C@@H]3CCC(C=CC([C@H](C4CC4)[C@H](C)C(O)=O)=C5)=C5O3		
Formula	$C_{28}H_{28}FNO_4$	M.Wt	461.52
Solubility	Soluble in DMSO	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	AP5		

Background

AP5 exhibits potent and selective agonism for the GPR40 receptor with positive allosteric modulation of endogenous ligands (AgoPAM). AP5 demonstrates a rat hIP1 EC50 of 0.49±0.28 nM against the GPR40 receptor[1]. EC50: 0.49±0.28 nM (GPR40 Receptor)[1]

AP5 is a potent and selective GPR40 AgoPAM that demonstrates excellent in vivo efficacy. In the GK rat oral glucose tolerance test (oGTT), oral administration of AP5 1 h before an oral dextrose challenge shows that AP5 significantly reduces blood glucose levels compared to the vehicle. AP5 is determined to be more efficacious in this model, demonstrating maximally efficacious glucose lowering at a plasma concentration of 4.9 μM at 10 mg/kg[1].

[1]. Chen HY, et al. Structure-Activity Relationship of Novel and Selective Biaryl-Chroman GPR40 AgoPAMs. ACS Med Chem Lett. 2018 Jun 14;9(7):685-690.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA