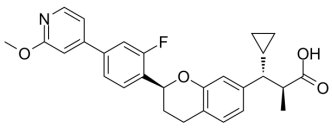
AP5

Cat. No.:	HY-112603
CAS No.:	1623194-37-5
Molecular Formula:	$C_{28}H_{28}FNO_4$
Molecular Weight:	461.52
Target:	Free Fatty Acid Receptor
Pathway:	GPCR/G Protein
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	AP5 is a potent, orlly active, and selective GPR40 receptor agonist with a positive allosteric modulation of endogenous ligand (AgoPAM). AP5 demonstrates rat and human inositol monophosphate (IP1) EC_{50} values of 0.49 nM and 0.8 nM against the GPR40 receptor, respectively. AP5 has the potential for type II diabetes research[1].
IC_{50} & Target	EC50: 0.49±0.28 nM (GPR40 Receptor)[1]
In Vitro	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]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[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: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA