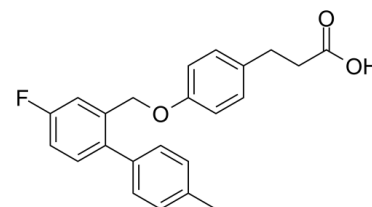


Data Sheet

Product Name:	TUG-891
Cat. No.:	CS-6138
CAS No.:	1374516-07-0
Molecular Formula:	C ₂₃ H ₂₁ FO ₃
Molecular Weight:	364.41
Target:	GPR120
Pathway:	GPCR/G Protein
Solubility:	DMSO : ≥ 180 mg/mL (493.95 mM)



BIOLOGICAL ACTIVITY:

TUG-891 is a potent and selective agonist for the long chain free fatty acid (LCFA) receptor 4 (FFA4/GPR120). **In Vitro:** TUG-891 displays similar signaling properties to the LCFA α -linolenic acid at human FFA4, including stimulation of Ca²⁺ mobilization, β -arrestin-1 and β -arrestin-2 recruitment, and extracellular signal-regulated kinase phosphorylation. Activation of human FFA4 by TUG-891 also results in rapid phosphorylation and internalization of the receptor^[1].

References:

[1]. Hudson BD, et al. The pharmacology of TUG-891, a potent and selective agonist of the free fatty acid receptor 4 (FFA4/GPR120), demonstrates both potential opportunity and possible challenges to therapeutic agonism. *Mol Pharmacol.* 2013 Nov;84(5):710-25

CAIndexNames:

Benzenepropanoic acid, 4-[(4-fluoro-4'-methyl[1,1'-biphenyl]-2-yl)methoxy]-

SMILES:

O=C(O)CCC1=CC=C(OCC2=CC(F)=CC=C2C3=CC=C(C)C=C3)C=C1

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

Tel: 732-484-9848 Fax: 888-484-5008 E-mail: sales@ChemScene.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA