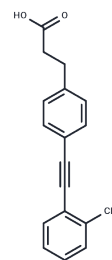


TUG-424

Chemical Properties

CAS No. :	1082058-99-8
Formula:	C ₁₈ H ₁₆ O ₂
Molecular Weight:	264.32
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	TUG-424 significantly enhances glucose-stimulated insulin secretion at 100 nM. TUG-424 is a potent and selective free fatty acid receptor 1 agonist (EC ₅₀ : 32 nM).
Targets(IC ₅₀)	Others
In vitro	At equivalent glucose concentrations, TUG-424's roughly double enhancement of secretion in the context of 12 mM glucose parallels the effect triggered by palmitate. Increasing TUG-424 doses (100 nM to 10 μM) significantly boost glucose-stimulated insulin secretion, beginning notably at 100 nM and peaking at 3 μM. Additionally, TUG-424 slightly yet significantly diminishes basal insulin secretion at 2.8 mM glucose [1].

Solubility Information

Solubility	DMSO: 50 mg/mL (189.16 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.7833 mL	18.9165 mL	37.8329 mL
5 mM	0.7567 mL	3.7833 mL	7.5666 mL
10 mM	0.3783 mL	1.8916 mL	3.7833 mL
50 mM	0.0757 mL	0.3783 mL	0.7567 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Discovery of Potent and Selective Agonists for the Free Fatty Acid Receptor 1 (FFA1/GPR40), a Potential Target for the Treatment of Type II Diabetes J. Med. Chem., 2008, 51 (22), pp 7061-7064

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481