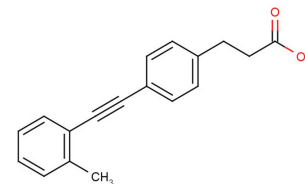


TUG-424

## Chemical Properties

CAS No.:	1082058-99-8
Formula:	C <sub>18</sub> H <sub>16</sub> O <sub>2</sub>
Molecular Weight:	264.32
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



## 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 <sub>50</sub> : 32 nM).
Targets(IC <sub>50</sub> )	FFA1/GPR40: (EC <sub>50</sub> ) 32 nM
In vitro	In the presence of the same glucose concentration, the approximately 2-fold stimulation of secretion by TUG-424 in the presence of 12 mM glucose is comparable to that induced by palmitate. Increasing concentrations (100 nM to 10 μM) of TUG-424 enhances glucose-stimulated insulin secretion significantly already at 100 nM and with a maximal effect at 3 μM. Basal insulin secretion at 2.8 mM glucose is slightly but significantly reduces by TUG-424 [1].

## Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.783 mL	18.916 mL	37.833 mL
5 mM	0.757 mL	3.783 mL	7.567 mL
10 mM	0.378 mL	1.892 mL	3.783 mL
50 mM	0.076 mL	0.378 mL	0.757 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

### Reference

2. Christiansen E, et al. Discovery of potent and selective agonists for the free fatty acid receptor 1 (FFA(1)/GPR40), a potential target for the treatment of type II diabetes. *J Med Chem.* 2008 Nov 27;51(22):7061-4.

Inhibitors · Natural Compounds · Compound Libraries

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