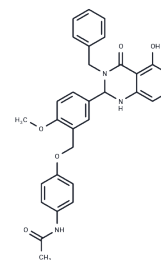


ML-109

Chemical Properties

CAS No. : 1186649-91-1
Formula: C₃₁H₂₉N₃O₅
Molecular Weight: 523.58
Appearance: no data available
Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	ML-109 is a potent agonist of thyroid stimulating hormone receptor (TSHR) (EC ₅₀ of 40 nM)
Targets(IC ₅₀)	TSH Receptor
In vitro	ML-109 is a full agonist at TSHR with an EC ₅₀ of 40 nM ,has no activity at FSHR or LHCGR.

Solubility Information

Solubility	DMSO: 83.33 mg/mL (159.15 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9099 mL	9.5496 mL	19.0993 mL
5 mM	0.382 mL	1.9099 mL	3.8199 mL
10 mM	0.191 mL	0.955 mL	1.9099 mL
50 mM	0.0382 mL	0.191 mL	0.382 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

Duan J, Xu P, Luan X, et al. Hormone- and antibody-mediated activation of the thyrotropin receptor. Nature. 2022: 1-3.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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