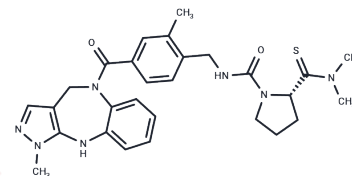


LIT-001 free base

Chemical Properties

CAS No. : 2245072-20-0
 Formula: C₂₈H₃₃N₇O₂S
 Molecular Weight: 531.67
 Appearance: no data available
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	LIT-001 free base improves social interaction in a mouse model of autism. LIT-001 free base is the first nonpeptide oxytocin receptor (OT-R) agonist (EC ₅₀ =55 nM; K _i =226 nM).
Targets(IC ₅₀)	Others
In vitro	In the in vitro signal transduction experiments, LITL-001 free Base is an unbiased OT-R agonist that ACTS on the two main signal transduction pathways of the receptor and has a slight antagonistic effect on V1a and an agonist effect on V1b receptor, which is only observed at high concentration.
In vivo	LIT-001 free base (10-20 mg/kg; i.p.) alleviates core symptoms in the context of autism spectrum disorders (ASD) [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8809 mL	9.4043 mL	18.8087 mL
5 mM	0.3762 mL	1.8809 mL	3.7617 mL
10 mM	0.1881 mL	0.9404 mL	1.8809 mL
50 mM	0.0376 mL	0.1881 mL	0.3762 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

Frantz MC, et al. LIT-001, the First Nonpeptide Oxytocin Receptor Agonist that Improves Social Interaction in a Mouse Model of Autism. J Med Chem. 2018 Oct 11;61(19):8670-8692.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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