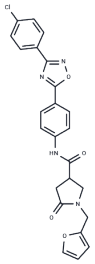
Data Sheet (Cat.No.T62929)

TargetMol

RLX-33

Chemical Properties



CAS No. : 2784577-71-3

Formula: C24H19ClN4O4

Molecular Weight: 462.89

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	RLX-33 is a potent and selective antagonist of relaxin family peptide 3 (RXFP3) that crosses the blood-brain barrier and also blocks relaxin 3-induced ERK1/2 phosphorylation. RLX-33 can block the increase in food intake induced by the RXFP3 selective agonist R3/I5 in rats.RLX-33 can be used to study the metabolic syndrome.
Targets(IC50)	ERK,RXFP receptor

Solubility Information

Solubility	DMSO: 112.5 mg/mL (243.04 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 3.3 mg/mL (7.13 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1603 mL	10.8017 mL	21.6034 mL
5 mM	0.4321 mL	2.1603 mL	4.3207 mL
10 mM	0.216 mL	1.0802 mL	2.1603 mL
50 mM	0.0432 mL	0.216 mL	0.4321 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Gay EA, Guan D, Van Voorhies K, Vasukuttan V, Mathews KM, Besheer J, Jin C. Discovery and Characterization of the First Nonpeptide Antagonists for the Relaxin-3/RXFP3 System. J Med Chem. 2022 Jun 9;65(11):7959-7974. doi: 10.1021/acs.jmedchem.2c00508. Epub 2022 May 20. PMID: 35594150; PMCID: PMC9255433.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481