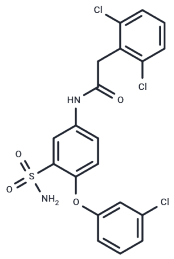
Data Sheet (Cat.No.T87086)

TargetMol

P2X4 antagonist-1

Chemical Properties



CAS No. : 2055601-42-6

Formula: C20H15Cl3N2O4S

Molecular Weight: 485.77

Storage: Store at low temperature
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	P2X4 antagonist-1 is a potent P2X4 receptor antagonist used in the study of neurological, cardiovascular, and immune system diseases.
Targets(IC50)	P2X Receptor
In vitro	P2X4 antagonist-1 (Compound 24) is an antagonist targeting the P2X4 receptor with an IC50 of 15 nM. [1]

Solubility Information

Solubility	DMSO: 80 mg/mL (164.69 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (6.79 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	2.0586 mL	10.2929 mL	20.5859 mL
5 mM	0.4117 mL	2.0586 mL	4.1172 mL
10 mM	0.2059 mL	1.0293 mL	2.0586 mL
50 mM	0.0412 mL	0.2059 mL	0.4117 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

Werner Stefan, et al. Discovery and characterization of the potent and selective P2X4 inhibitor N-[4-(3-Chlorophenoxy)-3-sulfamoylphenyl]-2-phenylacetamide (BAY-1797) and structure-guided amelioration of its CYP3A4 induction profile. Journal of Medicinal Chemistry 62.24 (2019): 11194-11217.