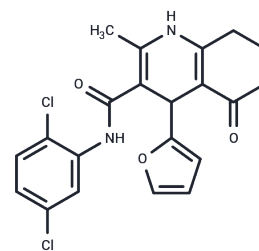


AR420626

## Chemical Properties

CAS No. : 1798310-55-0  
 Formula: C<sub>21</sub>H<sub>18</sub>Cl<sub>2</sub>N<sub>2</sub>O<sub>3</sub>  
 Molecular Weight: 417.29  
 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	AR420626 is a selective fatty acid 3 receptor (FA3R) agonist and provides protective effects against salsolionl (SALS), which was totally blocked by beta-hydroxy butyrate (BHB), a selective FA3R antagonist.
Targets(IC50)	CaMK,Others,Epigenetic Reader Domain,Histone Methyltransferase,HDAC,AChR,GPCR, mTOR,p38 MAPK,TNF,transporter

## Solubility Information

Solubility	DMSO: 50 mg/mL (119.82 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2.5 mg/mL (5.99 mM),Sonication is recommended. <i>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.</i>

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3964 mL	11.9821 mL	23.9641 mL
5 mM	0.4793 mL	2.3964 mL	4.7928 mL
10 mM	0.2396 mL	1.1982 mL	2.3964 mL
50 mM	0.0479 mL	0.2396 mL	0.4793 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

Getachew B, et al. Butyrate Protects Against Salsolinol-Induced Toxicity in SH-SY5Y Cells: Implication for Parkinson's Disease. Neurotox Res. 2020 Oct;38(3):596-602.

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