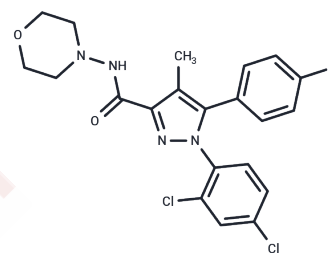


AM281

Chemical Properties

CAS No. : 202463-68-1
 Formula: C₂₁H₁₉Cl₂I₂N₄O₂
 Molecular Weight: 557.21
 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	AM 281, a cannabinoid antagonist, reduces neurologic dysfunction and mortality rate after cecal ligation and puncture in rats.
Targets(IC50)	Cannabinoid Receptor

Solubility Information

Solubility	DMSO: 12 mg/mL (21.54 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 0.5 mg/mL (0.9 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	1.7947 mL	8.9733 mL	17.9466 mL
5 mM	0.3589 mL	1.7947 mL	3.5893 mL
10 mM	0.1795 mL	0.8973 mL	1.7947 mL
50 mM	0.0359 mL	0.1795 mL	0.3589 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

Kadoi Y, et al. Crit Care Med. 2005 Nov;33(11):2629-36.

Li P, Lin Q, Sun S, et al. Inhibition of cannabinoid receptor type 1 sensitizes triple-negative breast cancer cells to ferroptosis via regulating fatty acid metabolism. Cell Death & Disease. 2022, 13(9): 1-15.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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