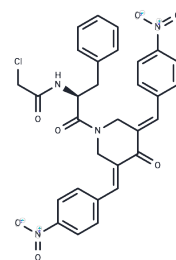


RA375

Chemical Properties

CAS No. : 2649154-57-2
 Formula: C₃₀H₂₅ClN₄O₇
 Molecular Weight: 588.99
 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	RA375, an inhibitor of RPN13 (26S proteasome regulatory subunit), enhances UPR signaling, ROS production, and apoptosis. Demonstrating ten times the efficacy against cancer lines compared to RA190, RA375 owes its increased activity to nitro ring substituents and the inclusion of a chloroacetamide warhead.
Targets(IC50)	Apoptosis, Reactive Oxygen Species, Proteasome, ROS
In vivo	RA375 (10 mg/kg, ip) inhibits proteasome function and reduces ovarian tumor burden in mice[1].

Solubility Information

Solubility	DMSO: 125 mg/mL (212.23 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6978 mL	8.4891 mL	16.9782 mL
5 mM	0.3396 mL	1.6978 mL	3.3956 mL
10 mM	0.1698 mL	0.8489 mL	1.6978 mL
50 mM	0.034 mL	0.1698 mL	0.3396 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

Ravi K Anchoori, et al. Structure-function Analyses of Candidate Small Molecule RPN13 Inhibitors With Antitumor Properties. PLoS One. 2020 Jan 15;15(1):e0227727.

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