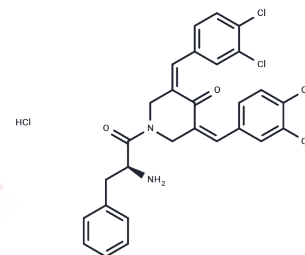


RA190

Chemical Properties

CAS No. : 1617495-03-0
 Formula: C₂₈H₂₃Cl₅N₂O₂
 Molecular Weight: 596.76
 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	RA190 inhibits proteasome function by covalently binding to cysteine 88 of ubiquitin receptor RPN13.
Targets(IC50)	Proteasome
In vitro	Multiple myeloma (MM) lines, even those resistant to bortezomib, are sensitive to RA190 via endoplasmic reticulum stress-related apoptosis. RA190 stabilizes targets of human papillomavirus (HPV) E6 oncoprotein, and preferentially kills HPV-transformed cells.
In vivo	RA190 administration profoundly reduces growth of multiple myeloma and ovarian cancer xenografts, and oral RA190 treatment retards HPV16+ syngeneic mouse tumor growth, without impacting spontaneous HPV-specific CD8+ T cell responses.

Solubility Information

Solubility	DMSO: 235 mg/mL (393.79 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn oil: < 10 mg/mL (16.76 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+90% (20% SBE-β-CD in Saline): < 10 mg/mL (16.76 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+90% Saline: < 10 mg/mL (16.76 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: < 10 mg/mL (16.76 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. <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	1.6757 mL	8.3786 mL	16.7572 mL
5 mM	0.3351 mL	1.6757 mL	3.3514 mL
10 mM	0.1676 mL	0.8379 mL	1.6757 mL
50 mM	0.0335 mL	0.1676 mL	0.3351 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

Anchoori RK, et al. A bis-benzylidene piperidone targeting proteasome ubiquitin receptor RPN13/ADRM1 as a therapy for cancer. *Cancer Cell*. 2013 Dec 9;24(6):791-805.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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

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