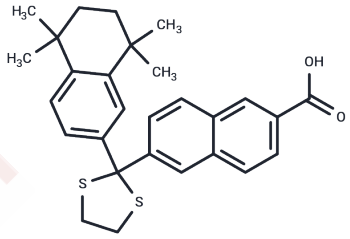
Data Sheet (Cat.No.T23005)

MM 11253

Chemical Properties



CAS No. : 345952-44-5

Formula: C28H30O2S2

Molecular Weight: 462.67

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	MM 11253 is a RARγ antagonist with IC50 of 44nM.
Targets(IC50)	Retinoid Receptor
In vitro	MM11253 inhibits the action of both MM11254 and MM11389, which typically prevent the growth of squamous cell carcinoma cells, as documented in source [2].

Solubility Information

Solubility	DMSO: 150 mg/mL (324.21 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: 10 mg/mL (21.61 mM),Solution. 10% DMSO+90% Saline: < 10 mg/mL (21.61 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. *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	2.1614 mL	10.8068 mL	21.6137 mL
5 mM	0.4323 mL	2.1614 mL	4.3227 mL
10 mM	0.2161 mL	1.0807 mL	2.1614 mL
50 mM	0.0432 mL	0.2161 mL	0.4323 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

M I Dawson, et al. Retinoic acid (RA) receptor transcriptional activation correlates with inhibition of 12-O-tetradecanoylphorbol-13-acetate-induced ornithine decarboxylase (ODC) activity by retinoids: a potential role for trans-RA-induced ZBP-89 in ODC inhibition. Int J Cancer. 2001 Jan 1;91(1):8-21.

Q Le, et al. Modulation of retinoic acid receptor function alters the growth inhibitory response of oral SCC cells to retinoids. Oncogene. 2000 Mar 9;19(11):1457-65.

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