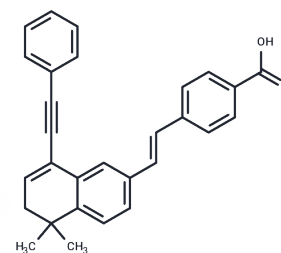


BMS493

## Chemical Properties

CAS No. : 215030-90-3  
 Formula: C<sub>29</sub>H<sub>24</sub>O<sub>2</sub>  
 Molecular Weight: 404.5  
 Storage: Store at low temperature  
 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	BMS493 is an inverse agonist of the pan-retinoic acid receptor (RAR) that inhibits retinoic acid-induced differentiation, enhances the interaction of nuclear co-inhibitors with RARs, attenuates RA signaling, potentiates TPP-induced toxicity, and inhibits the increase in phospholipase A2 activity.
Targets(IC50)	Retinoid Receptor, Phospholipase
In vitro	Cells treated with BMS 493 (100 nM; 6 days) showed a twofold increase in the number of ALDHhi cells available for transplantation compared to untreated controls. Newly expanded ALDHhi cells exhibited increased numbers of CD34 and CD133-positive cells, along with a reduction in CD38 expression[1].
In vivo	In contrast to freshly isolated ALDHhi cells, 6-day expansion with or without BMS 493 generated progeny that were unable to reduce hyperglycemia after iPan transplantation into STZ-treated NOD/SCID mice[1].

## Solubility Information

Solubility	DMSO: 30 mg/mL (74.17 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	2.4722 mL	12.3609 mL	24.7219 mL
5 mM	0.4944 mL	2.4722 mL	4.9444 mL
10 mM	0.2472 mL	1.2361 mL	2.4722 mL
50 mM	0.0494 mL	0.2472 mL	0.4944 mL

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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

Elgamal RM, et al. BMS 493 Modulates Retinoic Acid-Induced Differentiation During Expansion of Human Hematopoietic Progenitor Cells for Islet Regeneration. *Stem Cells Dev.* 2018 Aug 1;27(15):1062-1075.

Yu Z, et al. Apoptosis induced by atRA in MEPM cells is mediated through activation of caspase and RAR. *Toxicol Sci.* 2006 Feb;89(2):504-9.

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