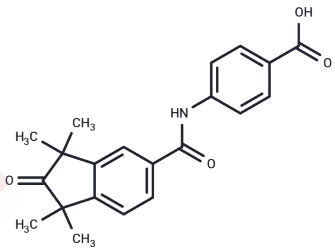
Data Sheet (Cat.No.T22049)

TargetMol

BMS 753

Chemical Properties



CAS No. : 215307-86-1

Formula: C21H21NO4

Molecular Weight: 351.4

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	BMS 753 is an agonist of isotype-selective retinoic acid receptor α (RARα, Ki= 2 nM).
Targets(IC50)	Retinoid Receptor
In vitro	In WT cells, BMS 753 can reduce RAR β Transcription level of 2 in a dose dependent mode. At RAR γ-/- cells, 100 nM of BMS 753 efficiently induces RAR β 2 Transcription. In contrast, in RAR α-/- In cells, up to 100 nM of BMS 753 can not activate RAR β 2[1].

Solubility Information

Solubility	DMSO: 45 mg/mL (128.06 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: 2 mg/mL (5.69 mM),Sonication is recommended. *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	2.8458 mL	14.2288 mL	28.4576 mL
5 mM	0.5692 mL	2.8458 mL	5.6915 mL
10 mM	0.2846 mL	1.4229 mL	2.8458 mL
50 mM	0.0569 mL	0.2846 mL	0.5692 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 Géhin, et al. Structural basis for engineering of retinoic acid receptor isotype-selective agonists and antagonists. Chem Biol. 1999 Aug;6(8):519-29.

R Taneja, et al. Cell-type and promoter-context dependent retinoic acid receptor (RAR) redundancies for RAR beta 2 and Hoxa-1 activation in F9 and P19 cells can be artefactually generated by gene knockouts. Proc Natl Acad Sci U S A. 1996 Jun 11; 93(12): 6