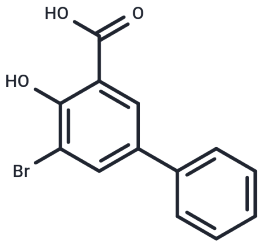
Data Sheet (Cat.No.T14151)

TargetMol

AKR1C1-IN-1

Chemical Properties



CAS No. : 4906-68-7

Formula: C13H9BrO3

Molecular Weight: 293.12

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	AKR1C1-IN-1 is a human 20α-hydroxysteroid dehydrogenase (AKR1C1) inhibitor (Ki: 4 nM for AKR1C1).
Targets(IC50)	Others,Reductase,NADPH
In vitro	AKR1C1-IN-1 inhibits the metabolism of progesterone that in AKR1C1-overexpressed BAECs (IC50:460 nM).

Solubility Information

Solubility	DMSO: 27.5 mg/mL (93.82 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 (6.82 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	3.4116 mL	17.0579 mL	34.1157 mL
5 mM	0.6823 mL	3.4116 mL	6.8231 mL
10 mM	0.3412 mL	1.7058 mL	3.4116 mL
50 mM	0.0682 mL	0.3412 mL	0.6823 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

El-Kabbani O, et al. Structure-guided design, synthesis, and evaluation of salicylic acid-based inhibitors targeting a selectivity pocket in the active site of human 20alpha-hydroxysteroid dehydrogenase (AKR1C1). J Med Chem. 2009 May 28;52(10):3259-64.