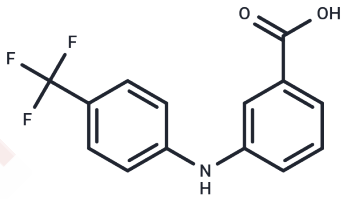
Data Sheet (Cat.No.T38684)

TargetMol

AKR1C3-IN-4

Chemical Properties



CAS No. : 1284180-11-5

Formula: C14H10F3NO2

Molecular Weight: 281.23

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	AKR1C3-IN-4, a potent and selective inhibitor of aldo-keto reductase 1C3 (AKR1C3) with an IC50 of 0.56 μM, shows potential for castrate-resistant prostate cancer (CRPC) research.
Targets(IC50)	Dehydrogenase,NADPH
In vitro	The IC50 of AKR1C3-IN-4 for AKR1C2 is 15.1 μM[1].

Solubility Information

Solubility	DMSO: 100 mg/mL (355.58 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: 4 mg/mL (14.22 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	3.5558 mL	17.779 mL	35.5581 mL
5 mM	0.7112 mL	3.5558 mL	7.1116 mL
10 mM	0.3556 mL	1.7779 mL	3.5558 mL
50 mM	0.0711 mL	0.3556 mL	0.7112 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

Adegoke O Adeniji, et al. Development of potent and selective inhibitors of aldo-keto reductase 1C3 (type 5 17β-hydroxysteroid dehydrogenase) based on N-phenyl-aminobenzoates and their structure-activity relationships. J Med Chem. 2012 Mar 8;55(5):2311-23.