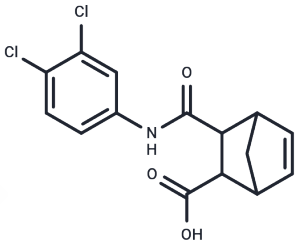
Data Sheet (Cat.No.T8334)

TargetMol

CADD522

Chemical Properties



CAS No. : 199735-88-1

Formula: C15H13Cl2NO3

Molecular Weight: 326.17

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	CADD522 (MFCD00167693) is a potent inhibitor of runt-related transcription factor-2 (RUNX2)-DNA binding with an IC50 of 10 nM, with antitumor activity
Targets(IC50)	Others,Reactive Oxygen Species,ROS
In vitro	CADD522 is a potent inhibitor of runt-related transcription factor-2 (RUNX2)-DNA binding(IC50 of 10 nM), has antitumor activity

Solubility Information

Solubility	DMSO: 250 mg/mL (766.47 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 10 mg/mL (30.66 mM),Solution. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (15.33 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	3.0659 mL	15.3294 mL	30.6589 mL
5 mM	0.6132 mL	3.0659 mL	6.1318 mL
10 mM	0.3066 mL	1.5329 mL	3.0659 mL
50 mM	0.0613 mL	0.3066 mL	0.6132 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

Kim MS, et al. Characterization of CADD522, a small molecule that inhibits RUNX2-DNA binding and exhibits antitumor activity. Oncotarget. 2017 Aug 10;8(41):70916-70940.