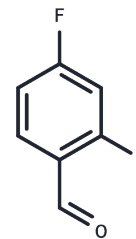


2,4-Difluorobenzaldehyde

Chemical Properties

CAS No. :	1550-35-2
Formula:	C ₇ H ₄ F ₂ O
Molecular Weight:	142.1
Storage:	Store under nitrogen Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	2,4-Difluorobenzaldehyde can act on the light chain of botulinum neurotoxin type A (BoNT/A), inhibiting the cleavage of BoNT A light chain, ic50=4.9µM.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 60 mg/mL (422.24 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 (14.07 mM),Sonication is recommended. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	7.0373 mL	35.1865 mL	70.373 mL
5 mM	1.4075 mL	7.0373 mL	14.0746 mL
10 mM	0.7037 mL	3.5186 mL	7.0373 mL
50 mM	0.1407 mL	0.7037 mL	1.4075 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

Houdaihed L , Evans J , Allen C . Delivery of paclitaxel and everolimus in dual-targeted polymeric nanoparticles to breast cancer cells[j]. Annals of Oncology, 2018, 29(suppl_3).

Harrell Jr W A, et al. A matrix-focused structure-activity and binding site flexibility study of quinolinol inhibitors of botulinum neurotoxin serotype A. Bioorganic & Medicinal Chemistry Letters, 2017, 27(3): 675-678.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481