

RO8994

Chemical Properties

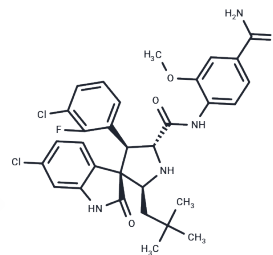
CAS No. : 1309684-94-3

Formula: C₃₁H₃₁Cl₂FN₄O₄

Molecular Weight: 613.51

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	RO8994 is a highly effective and specific inhibitor of spiroindolinone small-molecule MDM2, with IC ₅₀ of 20 nM (MTT proliferation assays) and 5 nM (HTRF binding assays).
Targets(IC ₅₀)	Apoptosis, Mdm2, E1/E2/E3 Enzyme, p53, MDM-2/p53

Solubility Information

Solubility	DMSO: 50 mg/mL (81.5 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 (3.26 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	1.630 mL	8.1498 mL	16.2997 mL
5 mM	0.326 mL	1.630 mL	3.2599 mL
10 mM	0.163 mL	0.815 mL	1.630 mL
50 mM	0.0326 mL	0.163 mL	0.326 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

Zhang Z, et al. Discovery of potent and selective spiroindolinone MDM2 inhibitor, RO8994, for cancer therapy. Bioorg Med Chem. 2014 Aug 1;22(15):4001-9.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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