

RO-5963

## Chemical Properties

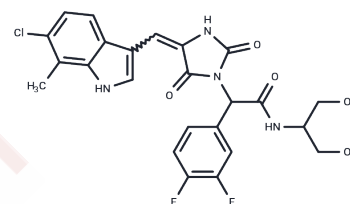
CAS No. : 1416663-77-8

Formula: C<sub>24</sub>H<sub>21</sub>ClF<sub>2</sub>N<sub>4</sub>O<sub>5</sub>

Molecular Weight: 518.9

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	RO-5963 is a dual inhibitor of p53-MDM2 and p53-MDMX (IC <sub>50</sub> s: ~17 nM and ~24 nM, respectively).
Targets(IC <sub>50</sub> )	Mdm2,E1/E2/E3 Enzyme,p53,MDM-2/p53
In vitro	RO-5963 (10 μM, 24 hours) potently activates p53 and elevates p21 and MDM2 levels. RO-5963 (10-20 μM; 48 hours) displays much higher apoptotic activity than Nutlin in both MCF7 and ZR75-30 cell lines [1].

## Solubility Information

Solubility	DMSO: 50 mg/mL (96.36 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: 3.3 mg/mL (6.36 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

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	1.9272 mL	9.6358 mL	19.2715 mL
5 mM	0.3854 mL	1.9272 mL	3.8543 mL
10 mM	0.1927 mL	0.9636 mL	1.9272 mL
50 mM	0.0385 mL	0.1927 mL	0.3854 mL

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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

Graves B, et al. Activation of the p53 pathway by small-molecule-induced MDM2 and MDMX dimerization. Proc Natl Acad Sci U S A. 2012 Jul 17;109(29):11788-93.

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