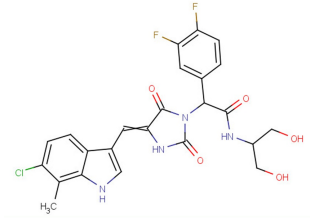


Data Sheet (Cat.No.T16771)

RO-5963

Chemical Properties

CAS No.:	1416663-77-8
Formula:	C ₂₄ H ₂₁ ClF ₂ N ₄ O ₅
Molecular Weight:	518.9
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	RO-5963 is a dual inhibitor of p53-MDM2 and p53-MDMX (IC ₅₀ s: ~17 nM and ~24 nM, respectively).
Targets(IC ₅₀)	p53-MDM2: ~17 nM p53-MDMX: ~24 nM
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	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.927 mL	9.636 mL	19.272 mL
5 mM	0.385 mL	1.927 mL	3.854 mL
10 mM	0.193 mL	0.964 mL	1.927 mL
50 mM	0.039 mL	0.193 mL	0.385 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. 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.

Inhibitors · Natural Compounds · Compound Libraries

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