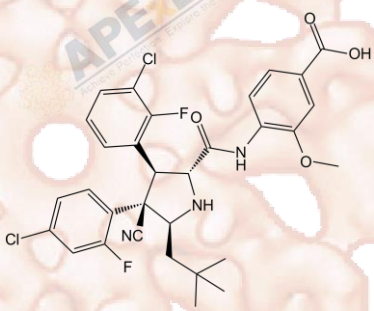
Product Data Sheet

RG7388

Cat. No.:	A3763
CAS No.:	1229705-06-9
Formula:	C31H29Cl2F2N3O4
M.Wt:	616.48
Synonyms:	RG 7388;RG-7388
Target:	Apoptosis
Pathway:	p53
Storage:	Store at -20°C



Solvent & Solubility

In Vitro

⩾30.82 mg/mL in DMSO; insoluble in H2O; ⩾6.96 mg/mL in EtOH with gentle warming

Preparing Stock Solutions

Mass / Solvent / Concentration	1mg	5mg	10mg
1 mM	1.6221 mL	8.1106 mL	16.2211 mL
5 mM	0.3244 mL	1.6221 mL	3.2442 mL
10 mM	0.1622 mL	0.8111 mL	1.6221 mL

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Shortsummary	MDM2 antagonist, oral, selective
IC_{50} & Target	

In Vitro

Cell Viability Assay

Cell Line:	Wild-type (wt)-p53 cancer cell lines (SJSA1, RKO, HCT116)
Preparation method:	The solubility of this compound in DMSO is >10 mM. General tips for obtaining a higher concentration: Please warm the tube at 37°C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.
Reacting conditions:	~ 10 μM; 24 hrs

	Applications:	In cancer cells expressing wt-p53, RG7388 inhibited cell proliferation with an IC50 value of 30 nM, and induced dose-dependent p53 stabilization, cell cycle arrest, as well as cell apoptosis.
In Vivo	**Animal experiment**	
	Animal models:	Mice bearing SJSA1 human osteosarcoma xenografts
	Dosage form:	25 or 50 mg/kg; p.o.; q.d., for 32 days
	Applications:	In a mouse SJSA1 human osteosarcoma xenograft model, RG7388 (25 mg/kg, p.o.) caused tumor growth inhibition and regression.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

Product Citations

1. Stolte B, Iniguez AB, et al. "Genome-scale CRISPR-Cas9 screen identifies druggable dependencies in TP53 wild-type Ewing sarcoma." J Exp Med. 2018 Aug 6;215(8):2137-2155.PMID:30045945
2. Lu J, Guan S, et al. "Novel MDM2 inhibitor SAR405838 (MI-773) induces p53-mediated apoptosis in neuroblastoma." Oncotarget. 2016 Dec 13;7(50):82757-82769.PMID:27764791

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References

[1]. Ding Q, Zhang Z, Liu JJ et al. Discovery of RG7388, a potent and selective p53-MDM2 inhibitor in clinical development. J Med Chem. 2013 Jul 25;56(14):5979-83.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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