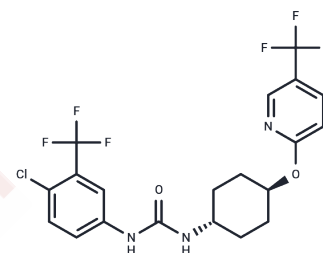


UC2288

Chemical Properties

CAS No. : 1394011-91-6
 Formula: C₂₀H₁₈ClF₆N₃O₂
 Molecular Weight: 481.82
 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	UC2288 is a relatively selective p21 attenuator which is synthesized based Sorafenib. UC2288 attenuates p21 protein levels with minimal effect on p21 protein stability.
Targets(IC50)	Apoptosis,Mdm2,p53,MDM-2/p53
In vitro	UC2288 (0-10 μM; 24 hours) reduces p21 mRNA expression through transcriptional or post-transcriptional mechanisms, independent of p53, with no inhibition of VEGFR2 and Raf kinases, even at 10 μM[1].
In vivo	UC2288 (10 mg/kg; i.p.) attenuates MPTP-induced behavioral impairment, prevents activation of MAPK pathway in the MPTP-treated mice brain. MPTP treatment raises TNF-α, IL-6 and IL-1β levels in MPTP treated mice brain, but UC2288 significantly decreases MPTP-induced TNF-α, IL-6 levels, but IL-1β is not decreased in brain[2].UC2288 (15 mg/kg; oral) co-treatment with imetelstat significantly suppresses tumor growth and does not effect mice weight[3].

Solubility Information

Solubility	DMSO: 48 mg/mL (99.62 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2 mg/mL (4.15 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	2.0755 mL	10.3773 mL	20.7546 mL
5 mM	0.4151 mL	2.0755 mL	4.1509 mL
10 mM	0.2075 mL	1.0377 mL	2.0755 mL
50 mM	0.0415 mL	0.2075 mL	0.4151 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

Hiromi I Wettersten, et al. A Novel p21 Attenuator Which Is Structurally Related to Sorafenib. *Cancer Biol Ther.* 2013 Mar;14(3):278-85.

Jun Hyung Im, et al. p21 inhibitor UC2288 ameliorates MPTP induced Parkinson's disease progression through inhibition of oxidative stress and neuroinflammation. *Translational Medicine. Neurobiology of Disease*

Romi Gupta, et al. Synergistic tumor suppression by combined inhibition of telomerase and CDKN1A. *Proc Natl Acad Sci U S A.* 2014 Jul 29;111(30):E3062-71.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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