

RIG012

Chemical Properties

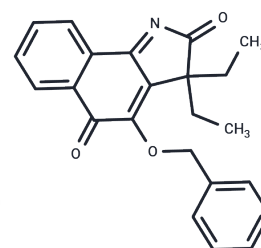
CAS No. : 2642218-43-5

Formula: C₂₃H₂₁NO₃

Molecular Weight: 359.42

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	RIG012 is a potent RIG-I inhibitor with an IC ₅₀ of 0.71 μM (measured by NADH-coupled ATPase), and it inhibits the expression of IFN-β and ISG hRsd2.
Targets(IC ₅₀)	Others,IFNAR
In vitro	RIG012 (1, 1.25, 1.5, 2, 2.5, 3, 4 μM) has potent dose-dependent inhibition of RIG-I signaling in HEK293T cells co-transfected with expression plasmids and reporter plasmids.[1] RIG012 (1.25, 2.25, 4.5, 9, 18 μM) has potent dose-dependent inhibition of IFN-β and ISG hRsd2 expression in A549 cells.[1] RIG012 contains a strong chromophore that absorbs in the visible range (λ _{max} of 470 nm). Upon binding to RIG-I, the 470 nm absorption band of RIG012 undergoes a significant hyperchromic shift toward higher intensity values.[1]

Solubility Information

Solubility	DMSO: 36.43 mg/mL (101.36 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7823 mL	13.9113 mL	27.8226 mL
5 mM	0.5565 mL	2.7823 mL	5.5645 mL
10 mM	0.2782 mL	1.3911 mL	2.7823 mL
50 mM	0.0556 mL	0.2782 mL	0.5565 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

David C Rawling, et al. Small-Molecule Antagonists of the RIG-I Innate Immune Receptor. ACS Chem Biol. 2020 Feb 21;15(2):311-317.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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