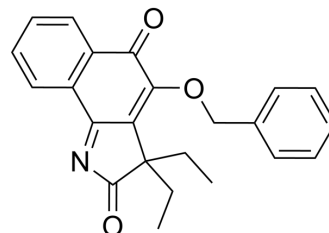


RIG012

Cat. No.:	HY-147124		
CAS No.:	2642218-43-5		
Molecular Formula:	C ₂₃ H ₂₁ NO ₃		
Molecular Weight:	359.42		
Target:	IFNAR		
Pathway:	Immunology/Inflammation		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 33.33 mg/mL (92.73 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
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

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

BIOLOGICAL ACTIVITY

Description

RIG012 is a potent RIG-I inhibitor with an IC₅₀ of 0.71 μM using the NADH-coupled ATPase assay. RIG012 inhibits IFN-β and ISG hRsd2 expression^[1].

In Vitro

RIG012 contains a strong chromophore that absorbs in the visible range (λ_{max} of 470 nm). Upon binding to RIG-I, the 470 nm absorbance band of RIG012 undergoes a dramatic hyperchromic shift to higher intensity values^[1].

RIG012 (1, 1.25, 1.5, 2, 2.5, 3, 4 μM) has potent, dose-dependent inhibition of RIG-I signaling in HEK293T cells cotransfected with expression and reporter plasmids^[1].

RIG012 (1.25, 2.25, 4.5, 9, 18 μM) has a potent, dose-dependent inhibition of IFN-β and ISG hRsd2 expression in A549 cells^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

Caution: Product has not been fully validated for medical applications. For research use only.

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