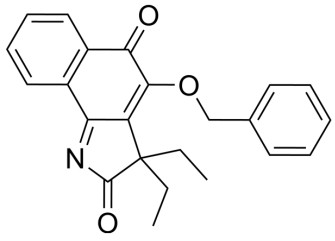
RIG012

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



BIOLOGICAL ACTIVITY

Description	RIG012 is a potent RIG-I inhibitor with an IC_{50} of 0.71 μM using the NADH-coupled ATPase assay. RIG012 inhibits IFN-β and ISG hRsad2 expression[1].
In Vitro	RIG012 contains a strong chromophore that absorbs in the visible range (λmax 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 hRsad2 expression in A549 cells[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. 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.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA