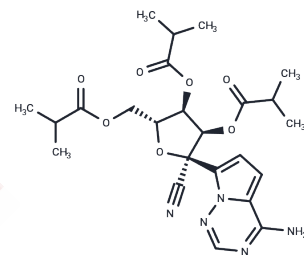


GS-441524 tris-isobutyryl ester

Chemical Properties

CAS No. :	2563617-99-0
Formula:	C ₂₄ H ₃₁ N ₅ O ₇
Molecular Weight:	501.54
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	GS-441524 tris-isobutyryl ester is a prodrug form of the antiviral nucleoside analog and remdesivir metabolite GS-441524. It reduces the cytopathic effect of respiratory syncytial virus (RSV) in infected HEp-2 cells with an EC ₅₀ value of 0.26 μM.
Targets(IC ₅₀)	Others, SARS-CoV

Solubility Information

Solubility	DMF: 10 mg/mL (19.94 mM), Sonication is recommended. DMSO: 10 mg/mL (19.94 mM), Sonication is recommended. DMSO:PBS (pH 7.2) (1:5): 0.16 mg/mL (0.32 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	1.9939 mL	9.9693 mL	19.9386 mL
5 mM	0.3988 mL	1.9939 mL	3.9877 mL
10 mM	0.1994 mL	0.9969 mL	1.9939 mL
50 mM	0.0399 mL	0.1994 mL	0.3988 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

Mackman, R.L., Hui, H.C., Perron, M., et al. Prodrugs of a 1'-CN-4-aza-7,9-dideazaadenosine C-nucleoside leading to the discovery of remdesivir (GS-5734) as a potent inhibitor of respiratory syncytial virus with efficacy in the african green monkey model of RSVJ. Med. Chem.64(8)5001-5017(2021)

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