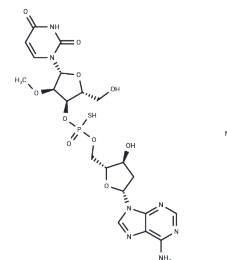


Inarigivir ammonium

Chemical Properties

CAS No. :	2172788-92-8
Formula:	C ₂₀ H ₂₉ N ₈ O ₁₀ P ₅
Molecular Weight:	604.53
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	Inarigivir ammonium (SB-9200 ammonium) is a dinucleotide antiviral compound that significantly reduces HBV DNA in transgenic mice expressing hepatitis B virus. Inarigivir is an agonist of retinoic acid-inducible gene-I (RIG-I) that activates intracellular innate immunity.
Targets(IC50)	HBV
In vitro	Inarigivir exhibits activity against HBV (hepatitis B virus) variants, including those resistant to all approved nucleo(s)tide analogues for chronic hepatitis B treatment[1].
In vivo	Administration of 100 mg/kg/day Inarigivir (ip) significantly reduces viral DNA in the liver and shows anti-HBV activity while serum HBV DNA is not reduced. Inarigivir does not affect levels of HBV RNA in liver, levels of HBeAg in serum, or mean titers of HBsAg. The minimal effective dose is identified to be between 1.6 and 0.5 mg/kg/day using liver HBV DNA values[2].

Solubility Information

Solubility	DMSO: 98 mg/mL (162.11 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	1.6542 mL	8.2709 mL	16.5418 mL
5 mM	0.3308 mL	1.6542 mL	3.3084 mL
10 mM	0.1654 mL	0.8271 mL	1.6542 mL
50 mM	0.0331 mL	0.1654 mL	0.3308 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

Danni Colledge, et al. The Novel Antiviral Agent Inarigivir Inhibits Both Nucleos(t)ide Analogue and Capsid Assembly Inhibitor Resistant HBV in vitro.

Iyer RP, et al. Anti-hepatitis B virus activity of ORI-9020, a novel phosphorothioate dinucleotide, in a transgenic mouse model. *Antimicrob Agents Chemother.* 2004 Jun;48(6):2318-20.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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