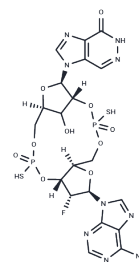


BI 7446

Chemical Properties

CAS No. : 2767011-00-5
 Formula: C₂₀H₂₂FN₉O₁₀P₂S₂
 Molecular Weight: 693.52
 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	BI 7446 is a potent and selective cyclic dinucleotide (CDN)-based stimulator of interferon genes (STING) agonist capable of activating all five STING variants in cells, thus inducing tumor-specific immune-mediated tumor rejection. This compound is utilized in immunoncology research [1].
Targets(IC50)	STING
In vitro	BI 7446 (CDN13) at concentrations of 3 μ M and 10 μ M over 6 hours enhances the phosphorylation of IRF3 and TBK1 in THP1 STING wild-type cells [1].
In vivo	BI 7446 (CDN13) administered intravenously at doses of 4, 12, and 36 μ g with detection time points up to 25 hours exhibited high plasma clearance and a short elimination half-life in the 4T1 tumor mouse model [1]. Similarly, subcutaneous injections of BI 7446 at 0.25, 1, and 4 μ g once weekly resulted in tumor regression in the EMT breast cancer mouse model and generated long-term immune memory against autologous tumor rechallenge [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4419 mL	7.2096 mL	14.4192 mL
5 mM	0.2884 mL	1.4419 mL	2.8838 mL
10 mM	0.1442 mL	0.721 mL	1.4419 mL
50 mM	0.0288 mL	0.1442 mL	0.2884 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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