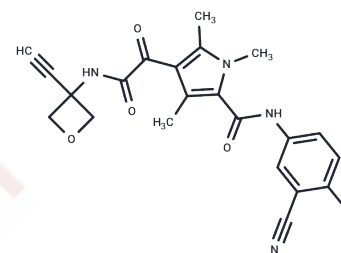


ALG-001075

## Chemical Properties

CAS No. : 2495324-66-6  
 Formula: C22H19FN4O4  
 Molecular Weight: 422.41  
 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	ALG-001075, a capsid assembly modulator (CAM), is an orally active inhibitor of HBV. It effectively suppresses HBV DNA production in primary human hepatocytes and significantly reduces extracellular levels of HBsAg/HBeAg and intracellular HBV RNA. In AAV-HBV mouse models, ALG-001075 notably decreases HBV DNA levels. It can be utilized in research related to chronic hepatitis B (CHB).
Targets(IC50)	HBV
In vitro	ALG-001075 (Compound 10) effectively suppresses HBV DNA production in HepG2.117 cells at concentrations ranging from 0.01 to 1000 nM, with an EC50 of 0.63 nM and an EC90 of 3.17 nM. In primary human hepatocytes, ALG-001075 not only inhibits HBV DNA synthesis with an EC50 of 1.98 nM but also significantly reduces extracellular HBsAg (EC50 = 70 nM), HBeAg (EC50 = 10.5 nM), and intracellular HBV RNA levels (EC50 = 54.7 nM).
In vivo	In an AAV-HBV mouse model, ALG-001075 (Compound 10) administered orally at 15-50 mg/kg twice daily for 56 days significantly reduced HBV DNA levels.

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3674 mL	11.8368 mL	23.6737 mL
5 mM	0.4735 mL	2.3674 mL	4.7347 mL
10 mM	0.2367 mL	1.1837 mL	2.3674 mL
50 mM	0.0473 mL	0.2367 mL	0.4735 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

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481