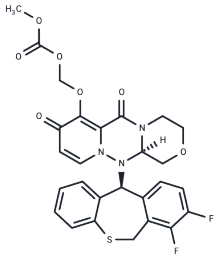
Data Sheet (Cat.No.T6195)

TargetMol

Baloxavir marboxil

Chemical Properties



CAS No. : 1985606-14-1

Formula: C27H23F2N3O7S

Molecular Weight: 571.55

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	Baloxavir marboxil (S-033188) is a novel cap-dependent endonuclease inhibitor designed for the treatment of influenza A and B virus infections.
Targets(IC50)	Influenza Virus

Solubility Information

Solubility	DMSO: 250 mg/mL (437.41 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2.5 mg/mL (4.37 mM),Sonication is recommended. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (17.5 mM),Solution. 10% DMSO+90% Saline: < 10 mg/mL (17.5 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7496 mL	8.7481 mL	17.4963 mL
5 mM	0.3499 mL	1.7496 mL	3.4993 mL
10 mM	0.175 mL	0.8748 mL	1.7496 mL
50 mM	0.035 mL	0.175 mL	0.3499 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

Koszalka P , Tilmanis D , Hurt A C . Influenza antivirals currently in late-phase clinical trial[J]. Influenza and Other Respiratory Viruses, 2017, 11(3):240-246.

Liu K, Li L, Liu Y, et al.Discovery of baloxavir sodium as a novel anti-CCHFV inhibitor: biological evaluation of in vitro and in vivo.Antiviral Research.2024: 105890.

Wang X, Kong H, Chu B, et al.Identification of a broad-inhibition influenza neuraminidase antibody from pre-existing memory B cells.Cell Host & Microbe.2024

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