Baloxavir marboxil

Catalog No.C11489 Batch:C1148903

Product Datasheet

Technical Data

Formula	$C_{27}H_{23}F_2N_3O_7S$					
Molecular Weight	571.55	**CAS No.**	1985606-14-1			
Solubility (25°C)*	In vitro	DMSO	100 mg/mL (174.96 mM)			
		Ethanol	7 mg/mL (12.24 mM)			
		Water	Insoluble			
	In vivo (Add solvents to the product individually and in order)	Oral Administration	Homogeneous suspension	CMC-NA	≥5mg/ml	Taking the 1 mL working solution as an example, add 5 mg of this product to 1 ml of CMC-Na solution, mix evenly to obtain a homogeneous suspension with a final concentration of 5 mg/ml.
		Injection	Clear solution	5%DMSO [1]→ 40%PEG300 [2]→ 5%Tween80 [3]→ 50%ddH2O Validated by Capsid Bio labs. Should you need adjustments to this formulation, contact our sales team for custom testing.	1.250mg/ml (2.19mM)	Taking the 1 mL working solution as an example, add 50 μL of 25 mg/ml clarified DMSO stock solution to 400 μL of PEG300, mix evenly to clarify it; add 50 μL of Tween80 to the above system, mix evenly to clarify; then continue to add 500 μL of ddH2O to adjust the volume to 1 mL. The mixed solution should be used immediately for optimal results.
			Clear solution	5% DMSO [1]→ 95% Corn oil Validated by Capsid Bio labs. Should you need adjustments to this formulation, contact our sales team for custom testing.	0.400mg/ml (0.70mM)	Taking the 1 mL working solution as an example, add 50 μL of 8 mg/ml clear DMSO stock solution to 950 μL of corn oil and mix evenly. The mixed solution should be used immediately for optimal results.

* <1 mg/ml means slightly soluble or insoluble.
* Please note that Capsid Bio tests the solubility of all compounds in-house, and the actual solubility may differ slightly from published values. This is normal and is due to slight batch-to-batch variations.
* Room temperature shipping (Stability testing shows this product can be shipped at 2-8°C for storage purposes.)

Preparing Stock Solutions

Biological Activity

Description	Baloxavir marboxil(S-033188), a cap-endonuclease inhibitor, is an antiviral drug.
In vivo	Single-dose oral baloxavir marboxil is well tolerated, had a favorable safety profile, and has favorable pharmacokinetic characteristics, including a long half-life, supporting single oral dosing. In nonclinical studies, baloxavir marboxil is a prodrug and is converted to an active form, baloxavir acid, by hydrolysis. After single oral administration in rats and monkeys, plasma concentrations of baloxavir marboxil are below the lower limit of quantification (LLOQ) at all sampling points, and area under the plasma concentration-time curve of baloxavir acid increased dose proportionally. The major excretion route of radioactivity is via fecal excretion, whereas urinary excretion was low in rats and monkeys[3]. Baloxavir marboxil has shown therapeutic activity in preclinical models of influenza A and B virus infections, including strains resistant to current antiviral agents. In murine models of seasonal influenza and avian influenza A(H5N1) or A(H7N9), orally administered baloxavir is associated with rapid reductions in pulmonary viral loads and decreased mortality[1].

Protocol (from reference)

Animal Study:[2]

- **Animal Models**
  Specific-pathogen-free, 6-week-old BALB/c mice
- **Dosages**
  0.5, 1.5, 15 or 50 mg/kg
- **Administration**
  oral

References

https://pubmed.ncbi.nlm.nih.gov/30184455/ https://pubmed.ncbi.nlm.nih.gov/30476172/ https://pubmed.ncbi.nlm.nih.gov/30288682/

RETURN POLICY

Capsid Bio's Unconditional Return Policy ensures a smooth online shopping experience for our customers. If you are in any way unsatisfied with your purchase, you may return any item(s) within 7 days of receiving it. In the event of product quality issues, either protocol related or product related problems, you may return any item(s) within 365 days from the original purchase date. Please follow the instructions below when returning products.

SHIPPING & STORAGE

Capsid Bio products are transported at room temperature. If you receive the product at room temperature, please rest assured, the Capsid Bio Quality Inspection Department has conducted experiments to verify that the normal temperature placement of one month will not affect the biological activity of powder products. After collecting, please store the product according to the requirements described in the datasheet. Most Capsid Bio products are stable under the recommended conditions.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

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