Peramivir Trihydrate

Catalog No.C08799 Batch:C0879903

Product Datasheet

Technical Data

Formula	$C_{15}H_{28}N_4O_4.3H_2O$		
Molecular Weight	382.45	**CAS No.**	1041434-82-5
Solubility (25°C)*	In vitro	Water	10 mg/mL (26.14 mM)
		DMSO	Insoluble
		Ethanol	Insoluble

* <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	Peramivir Trihydrate (BCX-1812, RWJ-270201, S-021812) is a trihydrate of the anti-infection agent peramivir which is a transition-state analogue and a potent, specific influenza viral neuraminidase inhibitor with an IC50 of median 0.09 nM.
In vivo	Peramivir protects mice against severe disease outcomes following infection with highly pathogenic avian influenza and multi-dose treatment was efficacious in ferrets. [1] Peramivir combined with Oseltamivir perform better than suboptimal doses of each compound alone to treat influenza infections in mice. [2] Peramivir (30 mg/kg) is effective in promoting the survival of mice infected with systemically replicating H5N1 virus. [3] Peramivir is 30% protective against H1N1 virus in mice at 0.5 mg/kg/d, but ineffective at lower doses when used as monotherapy. Peramivir combined with favipiravir increases the numbers of survivors by 10-50% when the 0.025 mg/kg/d, 0.05 mg/kg/d, and 0.1 mg/kg/d doses of Peramivir are combined with 20 mg/kg/d Favipiravir and when all doses of Peramivir are combined with 40 mg/kg/d Favipiravir. Peramivir combined with favipiravir results in an increase in lifespan, improved body weight and significant reductions in lung hemorrhage score and lung weight in H1N1 infected mice. [4] Peramivir (1 mg/kg/d) combined with Rimantadine (5 mg/kg/d and 10 mg/kg/d) produces weight losses of 1.69 and 0.69, respectively, whereas the combination of 3.0 mg/kg/d Peramivir with 10 and 30 mg/kg/d Rimantadine does not show any weight loss in sub-lethal influenza A (H3N2) virus mouse model. [5]

References

https://pubmed.ncbi.nlm.nih.gov/18234269/ https://pubmed.ncbi.nlm.nih.gov/20633577/ https://pubmed.ncbi.nlm.nih.gov/18573280/

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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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