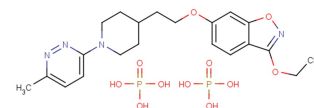


Vapendavir diphosphate

Chemical Properties

CAS No.:	1198151-75-5
Formula:	C ₂₁ H ₃₂ N ₄ O ₁₁ P ₂
Molecular Weight:	578.45
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Vapendavir diphosphate is a potent enteroviral capsid binder (CB) and has a potent antiviral activity for enterovirus 71 (EV71) replication (EC ₅₀ : 0.5-1.4 μM in different EV71 strains).
Targets(IC ₅₀)	EV71 strains: (EC ₅₀)0.5-1.4 μM
In vitro	In vitro, Vapendavir efficiently inhibits the replication of 21 EV71 strains/isolates that are representative of the different genogroups A, B, and C [2].

Solubility Information

Solubility	DMSO: 6.75 mg/mL (11.67 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.729 mL	8.644 mL	17.288 mL
5 mM	0.346 mL	1.729 mL	3.458 mL
10 mM	0.173 mL	0.864 mL	1.729 mL
50 mM	0.035 mL	0.173 mL	0.346 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

- Tijmsma A, et al. The capsid binder Vapendavir and the novel protease inhibitor SG85 inhibit enterovirus 71 replication. *Antimicrob Agents Chemother.* 2014 Nov;58(11):6990-2.
- Sun L, et al. Antiviral Activity of Broad-Spectrum and Enterovirus-Specific Inhibitors against Clinical Isolates of Enterovirus D68. *Antimicrob Agents Chemother.* 2015 Dec;59(12):7782-5.

Inhibitors · Natural Compounds · Compound Libraries

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