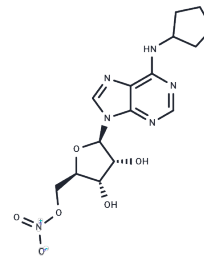


Trabodenoson

Chemical Properties

CAS No. :	871108-05-3
Formula:	C ₁₅ H ₂₀ N ₆ O ₆
Molecular Weight:	380.36
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	Trabodenoson (INO-8875) is a selective and potent adenosine A1 receptor agonist, an adenosine analog, for the study of primary open-angle glaucoma.
Targets(IC50)	Adenosine Receptor
In vitro	Treatment with Trabodenoson significantly increases MMP-2 activity and MMP-14 abundance, while decreasing expression of fibronectin and collagen IV[2].
In vivo	Trabodenoson (6.0%) demonstrates an average IOP drop of 2.45 ± 0.38 mm Hg in young mice over 7 days (downregulation)[2]. In induced eyes, topical trabodenoson significantly upregulates nestin expression in the ONH compared with vehicle-treated non-induced eyes[1]. Trabodenoson-treated eyes show significantly reduced optic nerve (ON) edema compared with vehicle-treated eyes. Additionally, RGC counts are higher in Trabodenoson-treated eyes compared to vehicle, accounting for 74% versus 47% of the contralateral eye[1].

Solubility Information

Solubility	DMSO: 100 mg/mL (262.91 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (10.52 mM),Sonication is recommended. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6291 mL	13.1454 mL	26.2909 mL
5 mM	0.5258 mL	2.6291 mL	5.2582 mL
10 mM	0.2629 mL	1.3145 mL	2.6291 mL
50 mM	0.0526 mL	0.2629 mL	0.5258 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

Yan Guo, et al. Topical Trabodenson Is Neuroprotective in a Rodent Model of Anterior Ischemic Optic Neuropathy (rNAION). *Transl Vis Sci Technol.* 2019 Dec 20;8(6):47.

Guorong Li, et al. Trabodenson, an Adenosine Mimetic With A1 Receptor Selectivity Lowers Intraocular Pressure by Increasing Conventional Outflow Facility in Mice. *Invest Ophthalmol Vis Sci.* 2018 Jan 1;59(1):383-392.

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