## Trabodenoson

Cat. No.:	HY-106007		
CAS No.:	871108-05-3		
Molecular Formula:	C <sub>15</sub> H <sub>20</sub> N <sub>6</sub> O <sub>6</sub>		
Molecular Weight:	380.36		
Target:	Adenosine Receptor		
Pathway:	GPCR/G Protein		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year

## SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (328.64 mM; Need ultrasonic)					
Preparing Stock Solutions	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg	
		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	
	Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent Solubility: ≥ 2.08 r	one by one: 10% DMSO >> 40% PE( ng/mL (5.47 mM); Clear solution	G300 >> 5% Tween-8	) >> 45% saline		
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (5.47 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (5.47 mM); Clear solution					

DIOLOGICALACITY	
Description	Trabodenoson (INO-8875), an adenosine mimetic, is a highly selective Adenosine A1 receptor agonist. Trabodenoson (INO- 8875) is used in the study for Primary Open-Angle Glaucoma <sup>[1]</sup> .
In Vitro	Trabodenoson treatment significantly increaseS MMP-2 activity and MMP-14 abundance, while decreasing fibronectin and collagen IV expression <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.



Product Data Sheet

In Vivo	Trabodenoson (6.0%), demonstrating an average IOP drop of 2.45 ± 0.38 mm Hg in young mice over 7 days (downregulation) [1].			
	Topical trabodenoson significantly upregulates nestin expression in the ONH of induced eyes compared with vehicle-treated no-induced eyes <sup>[2]</sup> .			
	Trabodenoson-treated eyes have significantly reduced optic nerve (ON) edema compared with vehicle-treated eyes. RGC counts are higher in Trabodenoson-treated eyes compared to vehicle (74% versus 47% of the contralateral eye) <sup>[2]</sup> .			
	MCE has not independently confirmed the accuracy of these methods. They are for reference only.			
	Animal Model:	Young (3-4 months old) and aged (12 months old) $^{[1]}$ .		
	Dosage:	3% or 6% in 10 μL.		
	Administration:	Eye drop for 7 consecutive days.		
	Result:	Decreased IOP.		
	Animal Model:	Rats <sup>[2]</sup> .		
	Dosage:	3%.		
	Administration:	Topical delivery daily.		
	Result:	Had significantly reduced optic nerve (ON) edema.		

## REFERENCES

[1]. Guorong Li, et al. Trabodenoson, 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.

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

Caution: Product has not been fully validated for medical applications. For research use only.

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