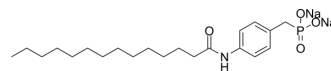


## S32826 disodium

<b>Cat. No.:</b>	HY-103267
<b>CAS No.:</b>	1103672-43-0
<b>Molecular Formula:</b>	C <sub>21</sub> H <sub>34</sub> NNa <sub>2</sub> O <sub>4</sub> P
<b>Molecular Weight:</b>	441.45
<b>Target:</b>	Phosphodiesterase (PDE)
<b>Pathway:</b>	Metabolic Enzyme/Protease
<b>Storage:</b>	-20°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



### SOLVENT & SOLUBILITY

#### In Vitro

Ethanol : 2.4 mg/mL (5.44 mM; Need ultrasonic)  
H<sub>2</sub>O : < 0.1 mg/mL (ultrasonic;warming;heat to 60°C) (insoluble)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
1 mM		2.2653 mL	11.3263 mL	22.6526 mL
5 mM		0.4531 mL	2.2653 mL	4.5305 mL
10 mM		---	---	---

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

<b>Description</b>	S32826 disodium is a potent autotaxin inhibitor, with an IC <sub>50</sub> of 8.8 nM. S32826 disodium shows similar inhibitory effects at various autotaxin isoforms (α, β and γ). S32826 disodium inhibits LPA release from adipocytes <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	Autotaxin 8.8 nM (IC <sub>50</sub> )
<b>In Vitro</b>	S32826 (0.001-10 μM; 10 days) disodium dose-dependently inhibits the release of lyso-phosphatidic acid (LPA) by 3T3-F442A adipocytes with an IC <sub>50</sub> of 90 nM and a maximal inhibition of 80% at 500 nM <sup>[1]</sup> . S32826 (1 μM; 24 h) disodium inhibits Dexamethasone-induced increases in autotaxin (ATX) mRNA expression in HTM cells and lysoPLD activity in conditioned media. S32826 disodium inhibits Dexamethasone-induced the phosphorylation of MLC and cofilin, mRNA upregulation of COL1A1 and COL4A1, and expression of α-SMA, fibronectin and collagen-1 in the HTM cells [2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
<b>In Vivo</b>	Topical application of S32826 (2-10 mM; 2 h-5 d) disodium decreases intraocular pressure (IOP) in a dose- and time-

dependent manner in rabbits<sup>[2]</sup>.

S32826 (~2  $\mu$ M; single intracameral injection) disodium reduces the IOP in rabbits, with the ocular hypotensive response lasting for more than 48 hrs<sup>[2]</sup>.

S32826 (10 mg/kg; p.o., i.p., s.c., and i.v.) disodium shows poor in vivo stability and/or bioavailability<sup>[1]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

- [1]. Ferry G, et, al. S32826, a nanomolar inhibitor of autotaxin: discovery, synthesis and applications as a pharmacological tool. *J Pharmacol Exp Ther.* 2008 Dec;327(3):809-19.
- [2]. Honjo M, et, al. Role of the Autotaxin-LPA Pathway in Dexamethasone-Induced Fibrotic Responses and Extracellular Matrix Production in Human Trabecular Meshwork Cells. *Invest Ophthalmol Vis Sci.* 2018 Jan 1;59(1):21-30.
- [3]. Iyer P, et, al. Autotaxin-lysophosphatidic acid axis is a novel molecular target for lowering intraocular pressure. *PLoS One.* 2012;7(8):e42627.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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