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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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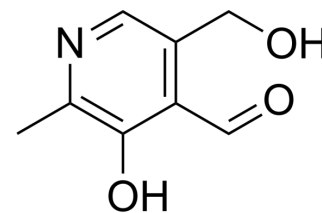
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Pyridoxal hydrochloride

Cat. No.:	HY-W027446
CAS No.:	65-22-5
Molecular Formula:	C ₈ H ₁₀ ClNO ₃
Molecular Weight:	203.62
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, stored under nitrogen
	* In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



HCl

SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (245.55 mM; Need ultrasonic)
H₂O : 33.33 mg/mL (163.68 mM; Need ultrasonic)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		4.9110 mL	24.5549 mL	49.1099 mL
	5 mM		0.9822 mL	4.9110 mL	9.8220 mL
	10 mM		0.4911 mL	2.4555 mL	4.9110 mL

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

In Vivo

1. Add each solvent one by one: PBS
Solubility: 100 mg/mL (491.10 mM); Clear solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 5 mg/mL (24.55 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 5 mg/mL (24.55 mM); Clear solution
4. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.08 mg/mL (10.21 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Pyridoxal hydrochloride, the hydrochloride form of Pyridoxal (HY-107469), is a newly developed neuroprotective agent. Pyridoxal hydrochloride is one of the major forms of vitamin B6. Pyridoxal hydrochloride is solvolyzed in methanol to form pyridoxal monomethylacetal. Pyridoxal is phosphorylated by pyridoxal kinase to Pyridoxal phosphate (HY-B1744). Pyridoxal is oxidized by the liver to 4-Pyridoxic acid (HY-113493) which is excreted in the urine. Pyridoxal hydrochloride is promising for research of carpal tunnel syndrome (CTS)^{[1][2][3]}.

In Vitro

Pyridoxal hydrochloride (5 μ M) has an increasing effect on the activity of tyrosine decarboxylase^[4].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Vrolijk MF, et al. The vitamin B6 paradox: Supplementation with high concentrations of pyridoxine leads to decreased vitamin B6 function[J]. Toxicol In Vitro. 2017 Oct;44:206-212.
- [2]. Aufiero E, et al. Pyridoxine hydrochloride treatment of carpal tunnel syndrome: a review[J]. Nutr Rev. 2004 Mar;62(3):96-104.
- [3]. Nagata Y, et al. Solvolysis of pyridoxal hydrochloride in alcohols[J]. Chemical and pharmaceutical bulletin, 1993, 41(6): 1019-1022.
- [4]. Vrolijk MF, et al. The vitamin B6 paradox: Supplementation with high concentrations of pyridoxine leads to decreased vitamin B6 function. Toxicol In Vitro. 2017 Oct;44:206-212.

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

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