

## Pyrithioxin dihydrochloride

## Chemical Properties

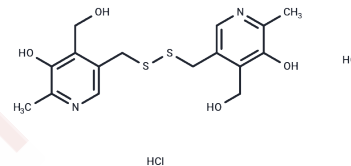
CAS No. : 10049-83-9

Formula: C<sub>16</sub>H<sub>22</sub>Cl<sub>2</sub>N<sub>2</sub>O<sub>4</sub>S<sub>2</sub>

Molecular Weight: 441.39

Storage: Store at low temperature, Keep away from moisture  
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	Pyridoxin dihydrochloride (Pyridoxine HCl) has anti-nociceptive and anti-allodynic effects, can promote the metabolism of glucose and amino acids in the brain, improve systemic assimilation, and can be used to study neurological diseases such as atherosclerosis. Pyridoxin dihydrochloride can induce severe cholestatic hepatitis.
Targets(IC50)	Endogenous Metabolite
In vivo	<b>METHODS:</b> The effect of Pyridoxin dihydrochloride on children with learning disabilities was tested under strict double-blind conditions in 67 students in a class with learning disabilities aged 11 to 16 years who received either Pyridoxin dihydrochloride (300 mg, 24 hours) or placebo for 6 months. Effects on cognitive function. <b>RESULTS:</b> Pyridoxin dihydrochloride had different effects on different subjects. None of the 22 parameters showed a statistically significant treatment effect in terms of mean performance. Variability was significantly higher in the Pyridoxin dihydrochloride group (F = 1.85-2.33, P less than 0.05 and less than 0.02, respectively). [1]

## Solubility Information

Solubility	DMSO: 50 mg/mL (113.28 mM),Sonication is recommended. H <sub>2</sub> O: 250 mg/mL (566.39 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	2.2656 mL	11.3279 mL	22.6557 mL
5 mM	0.4531 mL	2.2656 mL	4.5311 mL
10 mM	0.2266 mL	1.1328 mL	2.2656 mL
50 mM	0.0453 mL	0.2266 mL	0.4531 mL

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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

- Wälti U, Kuenzler M, Schild J, Vassella F, Pavlincova E, Bircher J, Herschkowitz N. Pyritinol hydrochloride and cognitive functions: influence on children in slow learner classes. *Pediatr Res.* 1975 Sep;9(9):717-21.
- Hoyer S, Oesterreich K, Stoll KD. Effect of pyritinol-GCl on blood flow and oxidative metabolism of the brain in patients with dementia. *Arzneimittelforschung.* 1977;27(3):671-4. PubMed PMID: 577444.
- Hoyer S, Oesterreich K, Stoll KD. Effect of pyritinol-GCl on blood flow and oxidative metabolism of the brain in patients with dementia. *Arzneimittelforschung.* 1977;27(3):671-4. PubMed PMID: 577444.

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