

Product Data Sheet

Product Name: 4-Deoxypyridoxine (hydrochloride)

Cat. No.: GC42369

Chemical Properties

Cas. No. 148-51-6

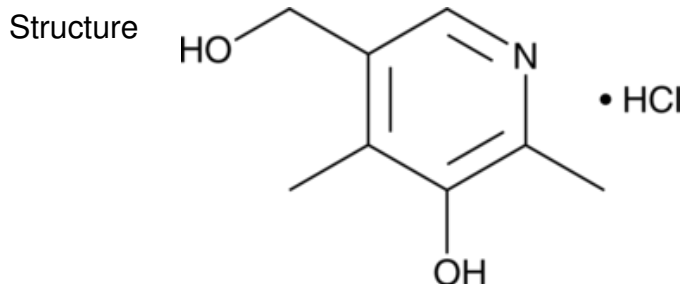
SMILES OCC1=C(C)C(O)=C(C)N=C1.Cl

Formula $C_8H_{11}NO_2 \cdot HCl$ M.Wt 189.6

Solubility DMSO: 10 mg/ml, PBS (pH 7.2): 10 mg/ml Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.



Background

4-Deoxypyridoxine (4-DPD) is a vitamin B6 antimetabolite with diverse biological activities. It inhibits transport of pyridoxine, pyridoxal, and pyridoxamine in and reduces growth of *S. carlsbergensis* cells. 4-DPD inhibits sphingosine-1-phosphate (S1P) lyase and reduces cyclic stretch-induced apoptosis in alveolar epithelial MLE-12 cells. 4-DPD (5 mg, i.p.) reduces lysyl oxidase activity by 26% and reduces collagen and elastin crosslinking, resulting in limb abnormalities in chick embryos. It decreases latency to first seizure in mice (ED50 = 1 mmol/kg) and increases the occurrence and duration of myoclonic responses in baboons with photosensitive epilepsy. 4-DPD reduces TNF- α and IL-6 production in mice infected with *T. spiralis*.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA