

Vitamin B6

Vitamin B6, commonly known as pyridoxine, is a water-soluble vitamin that is susceptible to damage when exposed to light or alkali and is not heat-resistant. It exists in the body as pyridoxine, pyridoxal, or pyridoxamine. This vitamin is a crucial component of certain coenzymes involved in numerous metabolic reactions, particularly those related to amino acid metabolism. Clinically, Vitamin B6 preparations are used to prevent and treat conditions such as morning sickness and vomiting. Additionally, pyridoxine (Vitamin B6) is employed to prevent or treat vitamin B6 deficiency in individuals who do not obtain sufficient amounts through their diet.

Basic Information

Name: Pyridoxine hydrochloride

CASN: 58-56-0

Molecular formula: C₈H₁₂ClNO₃

Molecular weight: 205.64

EINECS: 200-386-2

Properties

Melting point: 214-215 °C(lit.)

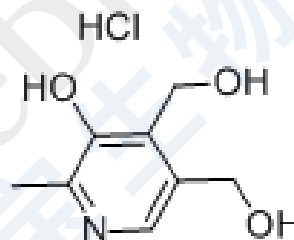
Density: 1.2784 (rough estimate)

Appearance: White or class white crystalline or crystalline powder

Storage: 2-8°C

Solubility: Easily soluble in water and ethanol, insoluble in organic solvents such as ether.

Stability: Stable. Protect from air and light.



Applications

1. Pyridoxine has been utilized to prevent or manage a specific nerve condition known as peripheral neuropathy, which can be triggered by certain medications, like isoniazid. Furthermore, it has been prescribed for the treatment of certain hereditary disorders, including xanthurenic aciduria, hyperoxaluria, and homocystinuria.
2. Pyridoxine is incorporated into solid fortified beverages and infant food formulas.

Properties

Level	Applications	Packaging
Food grade	Used as food fortifier	25kg
Feed grade	Included in feed additives	25kg
USP/EP	Active Pharmaceutical Ingredients	5kg,25kg
Reagent grade,98%	For biochemical research use	100g
Reagent grade,99%	For biochemical research use	500g



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