

Vitamin B5

Pantothenic acid, also known as vitamin B5, is abundantly present in both plants and animals, encompassing a range of foods such as meat, vegetables, cereal grains, legumes, eggs, and milk.

This essential vitamin aids the body in efficiently utilizing carbohydrates, proteins, and lipids. Additionally, it plays a crucial role in maintaining healthy skin. Vitamin B5 is commonly available in the forms of D-pantothenic acid, as well as dexpanthenol and calcium pantothenate, which are chemically derived from D-pantothenic acid in laboratories.

Basic Information

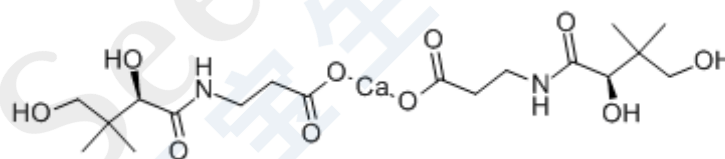
Name: Calcium D-Pantothenate

CASN: 137-08-6

Molecular formula: $C_9H_{17}NO_5 \cdot 1/2Ca$

Molecular weight: 476.53

EINECS: 205-278-9



Properties

Melting point: 190 °C

Density: 1.2112 (rough estimate)

Specific rotation: 26.5 ° (c=5, in water)

Appearance: D-calcium pantothenate is white powder, odorless, taste slightly bitter, hygroscopic.

Storage: 2-8°C

D-calcium pantothenate is a white, odorless powder with a slightly bitter taste and hygroscopic properties. Its aqueous solution exhibits neutrality or a mild alkaline nature, and it dissolves easily in water but only slightly in ethanol. It is nearly insoluble in chloroform or ether. In the medical industry, the panthenol component participates in metabolism.



Applications

Vitamin B5 is pivotal for animal health as it plays a crucial role in numerous bodily chemical reactions. In addition to converting fats, proteins, and carbohydrates into energy, vitamin B5 interacts with other vitamins to carry out essential functions.

Calcium pantothenate is soluble in water and glycerin but insoluble in alcohol, chloroform, and ether. It finds applications in medicine, food, and feed additives. As a component of coenzyme A, it is involved in the metabolism of carbohydrates, fats, and proteins. Clinically, it is used to treat vitamin B deficiencies, peripheral neuritis, and post-surgical intestinal colic. Calcium pantothenate also participates in the metabolism of proteins, fats, and sugars within the body.

Properties

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



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