

Product Information

VB5

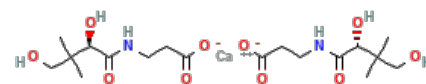
Cat. No.: X23-04-XQ149

Size: 100 mg; 200 mg; 500 mg; 1 g

MDL: MFCD00002766

CAS Number: 137-08-6

Compound CID: 443753



Synonym: 137-08-6; Calcium pantothenate; D-Calcium pantothenate; Calpanate; Pantholin; Calpan; Calcium D-pantothenate; Pantothenate calcium; D-Ca pantothenate; Calcium pantotenat; Pantothenic acid calcium salt; Pancal; Calcium D-pantothenate (1:2)

This product is for research use only and is not intended for diagnostic use.

Product Information

Description	VB5 is a water-soluble vitamin from the B group of vitamins, it helps produce energy by breaking down fats and carbohydrates.
Molecular Weight	476.53
Molecular Formula	C ₁₈ H ₃₂ CaN ₂ O ₁₀
IUPAC Name	Calcium;3-[[[(2R)-2,4-Dihydroxy-3,3-dimethylbutanoyl]amino]propanoate
InChI	InChI=1S/2C9H17NO5.Ca/c2*1-9(2,5-11)7(14)8(15)10-4-3-6(12)13;/h2*7,11,14H,3-5H2,1-2H3,(H,10,15)(H,12,13);/q;+2/p-2/t2*7-;/m00./s1
InChI Key	FAPWYRCQGJNNSJ-UBKPKTQASA-L
Canonical SMILES	CC(C)(CO)C(C(=O)NCCC(=O)[O-])O.CC(C)(CO)C(C(=O)NCCC(=O)[O-])O.[Ca+2]
Isomeric SMILES	CC(C)(CO)[C@H](C(=O)NCCC(=O)[O-])O.CC(C)(CO)[C@H](C(=O)NCCC(=O)[O-])O.[Ca+2]
Source	Synthesis
Form	White crystalline powder
Purity	>98%, determined by HPLC.
Solubility	It is soluble in water, glycerin and alkali solutions, slightly soluble in ethanol and acetone, and insoluble in benzene.
Identity	Confirmed by NMR and MS.
Stability	The product is stable for two years when stored at the recommended temperature.
Applications	VB5 can be used for content determination, identification, and pharmacological experiments, <i>etc.</i>



Storage

Store at 4°C.

Safety Information

Personal Protective

Gloves, eyeshields, N95 mask

Equipment
