

Phytic acid sodium salt hydrate Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Phytic acid sodium salt hydrate

Catalog No.: CFN99793

Cas No.: 14306-25-3

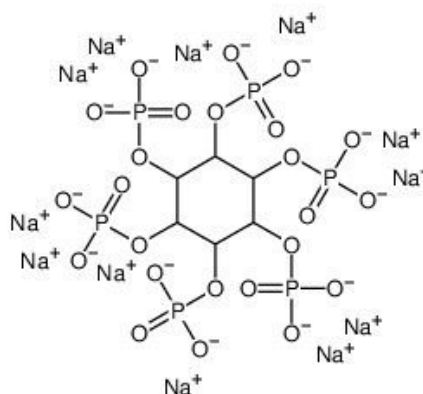
Purity: > 98%

M.F: $C_6H_{18}O_{24}P_6 \cdot xNa^+ \cdot yH_2O$

M.W: 660.04

Physical Description: White powder

Synonyms: Dodecasodium (2,3,4,5,6-pentaphosphonatooxycyclohexyl) phosphate.



[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Synthetic precursor compounds;
4. Intermediates & Fine Chemicals;
5. Others.

[Source]

The herbs of *Oryza sativa*.

[Biological Activity or Inhibitors]

Phytic acid dodecasodium salt (Na-PA), phytic acid dodecapotassium salt (K-PA), and phytic acid hexamagnesium salt n-hydrate (Mg-PA) are main ingredients of phytic acid (PA); Na-PA significantly can increase the development of preneoplastic and neoplastic lesions of the urinary bladder; K-PA also brought about a tendency for increase in papillomas, whereas Mg-PA and PA were without effect; both Na-PA and K-PA caused elevation of urinary pH, and Na⁺ or K⁺ concentration, respectively; confirms the promoting activity of the sodium salt of phytic acid for urinary bladder carcinogenesis and indicate modulation by urinary components, as demonstrated by increases in urinary pH, and Na⁺ concentration.^[1]

Phytic acid sodium salt has inhibitory effect on the activity of the digestive protease and α - amylase in rohu, Labeo rohita, catla, Catla catla, and mrigal, Cirrhinus mrigala .^[2]

The sodium salt of phytic acid may have a role in both the prevention and treatment of many forms of cancer.^[3]

[Solvent]

Pyridine, Methanol, Ethanol, Hot water, etc.

[HPLC Method]

Not data available.

[Storage]

2-8°C, Protected from air and light, refrigerate or freeze.

[References]

[1] Takaba K, Hirose M, Ogawa K, *et al. Food Chem. Toxicol.*, 1994, 32(6):499-503.

[2] Khan A, Ghosh K. *J. World Aquacult. Soc.*, 2013, 44(6):853–9.

[3] Fox C H, Eberl M. *Complement Ther. Med.*, 2002, 10(4):229-34.

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