[ Product Information ]

Name: Phytic acid
Catalog No.: CFN99792
Cas No.: 83-86-3
Purity: > 94%
M.F: C$_6$H$_{18}$O$_{24}$P$_6$
M.W: 660.04

Physical Description: Powder
Synonyms: Myo-inositol hexakisphosphate.

[ Intended Use ]

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

[ Source ]
The herbs of Oryza sativa.
Biological Activity or Inhibitors

Phytic acid has chelating effect, it forms an iron chelate which greatly accelerates Fe$^{2+}$-mediated oxygen reduction yet blocks iron-driven hydroxyl radical generation and suppresses lipid peroxidation; furthermore, high concentrations of phytic acid prevent browning and putrefaction of various fruits and vegetables by inhibiting polyphenol oxidase; indicate an important antioxidant function for phytate in seeds during dormancy and suggest that phytate may be a substitute for presently employed preservatives, many of which pose potential health hazards.[1]

Phytic acid, saponins and isoflavones are trypsin inhibitors in soybeans, they are now thought to have beneficial biological effects in the diet, such as lowering blood cholesterol or preventing cancer.[2]

Solvent

Pyridine, Methanol, Ethanol, etc.

HPLC Method[3]

Mobile phase: Acetonitrile-0.1 M HNO$_3$ in water=30:70;
Flow rate: 1.0 ml/min;
Column temperature: Room Temperature;
The wave length of determination: 460 nm.

Storage

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

References

[Contact]

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