



LKT Laboratories, Inc.

Phytic Acid, 40-50 wt% aqueous solution

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Product Information

Product ID P2997

CAS No. 83-86-3

Chemical Name

Synonym Inositol hexaphosphate, Alkovert, Phytate, myo-Inositol hexakisphosphate

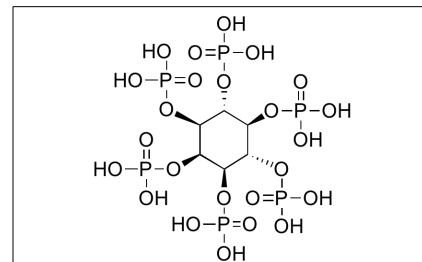
Formula $C_6H_{18}O_{24}P_6$

Formula Wt. 660.04

Melting Point

Purity $\geq 40\%$

Solubility Soluble in water.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
P2997	100 mL	\$141.80
P2997	500 mL	\$509.00

Store Temp Ambient

Ship Temp Ambient

Description Phytic acid is a saturated cyclic acid used to store phosphorus in plants; it is non-digestible in humans but is occasionally used in cattle feed. Phytic acid exhibits anticancer, anti-osteoporotic, anti-ulcerative, and anti-inflammatory activities. In colorectal adenocarcinoma cells, phytic acid increases expression of caspase 3, caspase 8, and Bax, decreases expression of Bcl-xl, and induces apoptosis. In clinical settings, high levels of this compound are associated with increases in bone mineral density. Additionally, phytic acid decreases edema and protects against NSAID-induced ulcer formation in animal models.

References Shafie NH, Esa NM, Ithnin H, et al. Pro-apoptotic effect of rice bran inositol hexaphosphate (IP6) on HT-29 colorectal cancer cells. *Int J Mol Sci.* 2013 Dec 2;14(12):23545-58. PMID: 24317430.

Lopez-Gonzalez AA, Grases F, Perello J, et al. Phytate levels and bone parameters: a retrospective pilot clinical trial. *Front Biosci (Elite Ed).* 2010 Jun 1;2:1093-8. PMID: 20515779.

Sudheer Kumar M, Sridhar Reddy B, Kiran Babu S, et al. Antiinflammatory and antiulcer activities of phytic acid in rats. *Indian J Exp Biol.* 2004 Feb;42(2):179-85. PMID: 15282951.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.