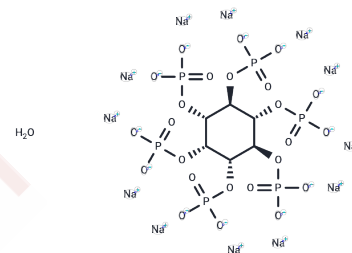


## Phytic acid dodecasodium salt hydrate

### Chemical Properties

CAS No. :	123408-98-0
Formula:	C <sub>6</sub> H <sub>20</sub> NaO <sub>25</sub> P <sub>6</sub>
Molecular Weight:	701.033
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



### Biological Description

Description	Phytic acid dodecasodium salt hydrate (myo-Inositol, hexakis(dihydrogen phosphate) dodecasodium salt hydrate) is a phosphorus storage compound of seeds and cereal grains. Phytic acid dodecasodium salt hydrate inhibits the enzymatic superoxide source xanthine oxidase with an IC <sub>50</sub> of 6 mM and has antioxidative, neuroprotective, and anti-inflammatory effects.
Targets(IC <sub>50</sub> )	Endogenous Metabolite,Xanthine Oxidase
In vitro	Phytic acid dodecasodium salt hydrate inhibits the formation of uric acid from xanthine with an IC <sub>50</sub> of about 30 mM[3].

### Solubility Information

Solubility	H <sub>2</sub> O: 250 mg/mL (356.62 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4265 mL	7.1324 mL	14.2647 mL
5 mM	0.2853 mL	1.4265 mL	2.8529 mL
10 mM	0.1426 mL	0.7132 mL	1.4265 mL
50 mM	0.0285 mL	0.1426 mL	0.2853 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Zhou JR, et al. Phytic acid in health and disease. Crit Rev Food Sci Nutr. 1995 Nov;35(6):495-508.

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