

## Phytohemagglutinin

## Chemical Properties

CAS No. : 9008-97-3

Formula:

Molecular Weight:

Phytohemagglutinin

Storage: Store under nitrogen, Keep away from moisture  
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	Phytohemagglutinin (PHA-M) is a lectin, isolated from the red kidney bean, induces apoptosis via increasing proapoptotic protein Bax and activating caspases-3. Anti-tumor activity
Targets(IC50)	Apoptosis, NF- $\kappa$ B, COX, Interleukin, ROS

## Solubility Information

Solubility	H2O: 50 mg/mL, Sonication is recommended. DMSO: < 1 mg/mL (insoluble) (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

## Reference

- Movafagh A, et al. The Significance Application of Indigenous Phytohemagglutinin (PHA) Mitogen on Metaphase and Cell Culture Procedure. Iran J Pharm Res. 2011 Fall;10(4):895-903.
- Zeng X, Li C, Liu Y, et al. HLA-B\* 35: 01-mediated activation of emodin-specific T cells contributes to Polygonum multiflorum Thunb.-induced liver injury in mice. Journal of Ethnopharmacology. 2024: 118523.
- Merlo JL, et al. Food Restriction Affects Inflammatory Response and Nutritional State in Tuco-tucos (Ctenomys talarum). J Exp Zool A Ecol Genet Physiol. 2016 Dec;325(10):675-687.
- Kochubei TO, et al. Isolectins of phytohemagglutinin are able to induce apoptosis in HEP-2 carcinoma cells in vitro. Exp Oncol. 2015 Jun;37(2):116-9.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel: 781-999-4286 E\_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481