

Phytohemagglutinin P

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Keep away from direct sunlight
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 P (PHA-P) is a naturally occurring lectin, the protein form of PHA. PHA is a selective T-cell mitogen that binds T-cell receptors and enhances HIV-1 replication.
Targets(IC50)	HIV Protease
In vitro	Phytohemagglutinin P (1-10 µg/mL) significantly stimulated PBMC proliferation and induced the expression of multiple cytokines (e.g., IL-2, IFN-γ). Phytohemagglutinin P activity is concentration-dependent and effectively initiates T cell-mediated immune responses[1].
In vivo	Phytohemagglutinin-P, administered intraperitoneally at doses of 25 and 50 mg/kg daily for 15 days to male Sprague-Dawley rats, resulted in a reduction of longitudinal bone growth, chondrocyte numbers, cartilage plate thickness, metaphyseal hard tissue mass, calcified cartilage core percentage, and osteoblast count per millimeter of bone surface. Furthermore, PHA-P elevated osteoclast quantity, osteoclastic nuclei labeling, and the average nuclei count per osteoclast [1].

Solubility Information

Solubility	H2O: 5 mg/mL, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Reference

Scaife PJ, Bulmer JN, Robson SC, Innes BA, Searle RF. Effector activity of decidual CD8+ T lymphocytes in early human pregnancy. Biol Reprod. 2006 Oct;75(4):562-7.

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