

## Phytohemagglutinin P

<b>Cat. No.:</b>	HY-N7038A
<b>Target:</b>	Others
<b>Pathway:</b>	Others
<b>Storage:</b>	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)

## Phytohemagglutinin P

### SOLVENT & SOLUBILITY

<b>In Vitro</b>	H <sub>2</sub> O : 10 mg/mL (Need ultrasonic and warming)
<b>In Vivo</b>	1. Add each solvent one by one: PBS Solubility: 25 mg/mL (Infinity mM); Clear solution; Need ultrasonic

### BIOLOGICAL ACTIVITY

<b>Description</b>	Phytohemagglutinin P (PHA-P) is a mitogen known to selectively stimulate cells of hematogenous or lymphoid monocytic origin <sup>[1]</sup> .
<b>In Vitro</b>	Phytohemagglutinin-P (10 µg/ml; 24-48hous)-stimulated decidual CD8 <sup>+</sup> T lymphocytes produces high levels of both interferon gamma and interleukin (IL) 8, and low levels of granulocyte-macrophage colony-stimulating factor (CSF2), IL1B, IL2, IL6, IL10, IL12, and tumor necrosis factor; these did not vary with gestational age <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
<b>In Vivo</b>	Phytohemagglutinin-P (25 and 50 mg/kg; i.p.; daily for 15 days; male Sprague-Dawley rats) shows a decrease in longitudinal bone growth, in the number of chondrocytes, in the thickness of cartilage plate, in the metaphyseal mass of hard tissue, in the percentage of calcified cartilage core, and in the number of osteoblasts per mm of bone surface. Additionally, PHA-P increases the number of osteoclasts, the number of labeled osteoclastic nuclei, and the average number of nuclei per osteoclast <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Scaife PJ, et al. Effector activity of decidual CD8<sup>+</sup> T lymphocytes in early human pregnancy. Biol Reprod. 2006;75(4):562-567.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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