

## PLD4 Protein, Human (HEK293, His)

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| Cat. No.:         | HY-P78019  |
| Synonyms:         | 5'-3' exonuclease PLD4; Choline phosphatase 4; Phospholipase D4; PLD 4 |
| Species:          | Human  |
| Source:           | HEK293   |
| Accession:        | Q96BZ4 (W52-G506)  |
| Gene ID:          | 122618   |
| Molecular Weight: | 68-75 kDa  |

### PROPERTIES

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| Biological Activity | The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.   |
| Appearance          | Lyophilized powder.  |
| Formulation         | Lyophilized from a 0.22 $\mu$ m filtered solution of 50 mM MES, 100 mM NaCl, pH 6.0. Normally 8% trehalose is added as protectant before lyophilization.   |
| Endotoxin Level     | <1 EU/ $\mu$ g, determined by LAL method.  |
| Reconstitution      | It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/mL in ddH <sub>2</sub> O.   |
| Storage & Stability | Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage. |
| Shipping            | Room temperature in continental US; may vary elsewhere.  |

### DESCRIPTION

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|------------|--|
| Background | PLD4 Protein, a 5'→3' DNA exonuclease, is responsible for digesting single-stranded DNA (ssDNA). Its role extends to regulating inflammatory cytokine responses by degrading nucleic acids, thereby decreasing the concentration of ssDNA capable of stimulating TLR9, a nucleotide-sensing receptor. Additionally, PLD4 Protein is involved in the phagocytosis of activated microglia. |
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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