

PLD4 Protein, Human (HEK293, C-His)

Cat. No.:	HY-P78019A
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:	75-85 kDa due to glycosylation

PROPERTIES

AA Sequence	<p> W Q V P R P P T W G Q V Q P K D V P R S W E H G S S P A W E P L E A E A R Q Q R D S C Q L V L V E S I P Q D L P S A A G S P S A Q P L G Q A W L Q L L D T A Q E S V H V A S Y Y W S L T G P D I G V N D S S S Q L G E A L L Q K L Q Q L L G R N I S L A V A T S S P T L A R T S T D L Q V L A A R G A H V R Q V P M G R L T R G V L H S K F W V V D G R H I Y M G S A N M D W R S L T Q V K E L G A V I Y N C S H L A Q D L E K T F Q T Y W V L G V P K A V L P K T W P Q N F S S H F N R F Q P F H G L F D G V P T T A Y F S A S P P A L C P Q G R T R D L E A L L A V M G S A Q E F I Y A S V M E Y F P T T R F S H P P R Y W P V L D N A L R A A A F G K G V R V R L L V G C G L N T D P T M F P Y L R S L Q A L S N P A A N V S V D V K V F I V P V G N H S N I P F S R V N H S K F M V T E K A A Y I G T S N W S E D Y F S S T A G V G L V V T Q S P G A Q P A G A T V Q E Q L R Q L F E R D W S S R Y A V G L D G Q A P G Q D C V W Q G </p>
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 0.2 µm filtered solution of 50 mM Tris-HCL, 300 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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

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.

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

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