

PLD4 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P77821
Synonyms:	5'-3' exonuclease PLD4; Choline phosphatase 4; Phospholipase D4; PLD 4
Species:	Mouse
Source:	HEK293
Accession:	Q8BG07 (Q58-W503)
Gene ID:	104759
Molecular Weight:	60-80 kDa

PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM MES, 100 mM NaCl, pH 6.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	The PLD4 protein exhibits 5'->3' DNA exonuclease activity, enabling it to efficiently digest single-stranded DNA (ssDNA). It plays a crucial role in regulating inflammatory cytokine responses by degrading nucleic acids and thereby reducing the concentration of ssDNA that can activate TLR9, a nucleotide-sensing receptor. Moreover, PLD4 is actively involved in the phagocytosis process of activated microglia, highlighting its significance in immune responses and cellular functions.
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Caution: Product has not been fully validated for medical applications. For research use only.

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