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	WQVPRPPTWG QVQPKDVPRS WEHGSSPAWE PLEAEARQQR DSCQLVLVES IPQDLPSAAG SPSAQPLGQA WLQLLDTAQE SVHVASYYWS LTGPDIGVND SSSQLGEALL QKLQQLLGRN ISLAVATSSP TLARTSTDLQ VLAARGAHVR QVPMGRLTRG VLHSKFWVVD GRHIYMGSAN MDWRSLTQVK ELGAVIYNCS HLAQDLEKTF QTYWVLGVPK AVLPKTWPQN FSSHFNRFQP FHGLFDGVPT TAYFSASPPA LCPQGRTRDL EALLAVMGSA QEFIYASVME YFPTTRFSHP PRYWPVLDNA LRAAAFGKGV RVRLLVGCGL NTDPTMFPYL RSLQALSNPA ANVSVDVKVF IVPVGNHSNI PFSRVNHSKF MVTEKAAYIG TSNWSEDYFS STAGVGLVVT QSPGAQPAGA TVQEQLRQLF ERDWSSRYAV GLDGQAPGQD CVWQG
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.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. 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.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA