

Datasheet for ABIN7550806

Phospholipase D4 Protein (PLD4) (AA 1-506) (His tag)



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Overview

Quantity:	1 mg
Target:	Phospholipase D4 (PLD4)
Protein Characteristics:	AA 1-506
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Phospholipase D4 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat PLD4 Protein expressed in mammalian cells.
Sequence:	<p>MLKPLWKA AV APTWPCSMPP RRPWDREAGT LQVLGALAVL WLGSVALICL LWQVPRPPTW</p> <p>GQVQPKDVPR SWEHGSSPAW EPLEAEARQQ RDSCQLVLVE SIPQDLPSAA GSPSAQPLGQ</p> <p>AWLQLLDTAQ ESVHVASYYW SLTGPDIGVN DSSSQLGEAL LQKLQQLLGR NISLAVATSS</p> <p>PTLARTSTDL QVLAARGAHV RQVPMGRLTR GVLH SKFVV DGRHIYMGSA NMDWRS LTQV</p> <p>KELGAVIYNC SHLAQDLEKT FQTYWVLGVP KAVLPKTWPQ NFSSHFNR FQ PFHGLFDGVP</p> <p>TTAYFSASPP ALCPQGRTRD LEALLAVMGS AQEFYASVM EYFPTTRFSH PPRYWPVLDN</p> <p>ALRAAFGKG VRVRL LVGCG LNTDPTMFPY LRSLQALSNP AANVSVDVKV FIVPVG NHSN</p> <p>IPFSRVNHSK FMVTEKAAI GTSNWSEDYF SSTAGVGLVV TQSPGAQPAG ATVQEQLRQL</p> <p>FERDWSSRYA VGLDGGAPGQ DCVWQG</p> <p>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please</p>

contact us.

Characteristics:

Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

Grade:

custom-made

Target Details

Target:

Phospholipase D4 (PLD4)

Alternative Name:

PLD4 ([PLD4 Products](#))

Background:

5'-3' exonuclease PLD4 (EC 3.1.16.1) (Choline phosphatase 4) (Phosphatidylcholine-hydrolyzing phospholipase D4) (Phospholipase D family member 4) (Phospholipase D4) (PLD 4),FUNCTION: 5'->3' DNA exonuclease which digests single-stranded DNA (ssDNA). Regulates inflammatory cytokine responses via the degradation of nucleic acids, by reducing the concentration of ssDNA able to stimulate TLR9, a nucleotide-sensing receptor. Involved in phagocytosis of activated microglia. {ECO:0000250|UniProtKB:Q8BG07}.

Molecular Weight:

55.6 kDa

UniProt:

[Q96BZ4](#)

Application Details

Application Notes:

In addition to the applications listed above we expect the protein to work for functional studies

Application Details

as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months