

Phospholipase D3/PLD3 Protein, Mouse, Recombinant (His)

General Information

Synonyms:	Phospholipase D3;5'-3' exonuclease PLD3;(S,S)-bis(monoacylglycero)phosphate synthase PLD3;Pld3;Schwannoma-associated protein 9 (SAM-9);Sam9
Protein Construction:	1-488 aa
Species:	Mouse
Expression Host:	E. coli
Accession:	O35405
Molecular Weight:	58.2 kDa (predicted)
AA Sequence:	MKPCLMYQELKVPVEEPAGELPLNEIEAWKAAEKKARWVLLVLILAVVGFALMTQLFLWEYGDLHLFGPNQ RPAPCYDPCEAVLVESIPEGLEFPNATTSNPSTSQAWLGLLAGAHSSLDIASFYWTLTNNDTHTQEPSAQOGE EVLQQLQALAPRGVKVRIAVSKPNGPLADLQSLQSGAQVRMVMQKLTHGVLHTKFWVVDQTHFYLGSA NMDWRSLTQVKELGVVMYNCCLARDLTKIFEAYWFLGQAGSSIPSTWPRSFDRYQETPMEICLNGTPAL AYLASAPPPLCPGRTDLKALLNVVDSARFSIYIAVMNYLPTMEFSPRRFWPAIDDGLRRAAYERGKVKVRL LISCWGHSDPSMRSFLLSLAALHDNHTHSIDIQVKLFVVPTDESQARIPYARVNHNKYMVTERASYIGTSNWS GSYFTETAGTSLLVLTQNGHGGLRSQLEAVFLRDWESPYSHDLDTSANSVGNACRLL

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from Tris/PBS-based buffer, 6% Trehalose, pH 8.0

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

A DRUG SCREENING EXPERT

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 in collaboration with PLD4. May be important in myotube formation. Plays a role in lysosomal homeostasis. Involved in the regulation of endosomal protein sorting.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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