

Recombinant Human PLCD1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PLCD1-4326H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PLCD1 MS Standard C13 and N15-labeled recombinant protein (NP_006216) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a member of the phospholipase C family. Phospholipase C isozymes play critical roles in intracellular signal transduction by catalyzing the hydrolysis of phosphatidylinositol 4,5-bisphosphate (PIP2) into the second messengers diacylglycerol (DAG) and inositol triphosphate (IP3). The encoded protein functions as a tumor suppressor in several types of cancer, and mutations in this gene are a cause of hereditary leukonychia. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene.
Molecular Mass	85.7 kDa
AA Sequence	MDSGRDFLT LHGLQDDEDLQALLKGSQLLKVKSSSWRRERFYKLQEDCKTIWQES RKVMRTPESQLFSIEDIQEVRMGHRTEGLEKFARDVPEDRCFSIVFKDQRNTLDLIAP SPADAQHWWVLGLHKIIHHSGSMDQRQKLQHWIHSCLRKADKNKDNKMSFKELQNFL KELNIQVDDSYARKIFRECDHSQTDSLEDEEIEAFYKMLTQRVEIDRTFAEAAGSGET LSVDQLVTFLQHQQREEAAGPALALSLIERYPSETAKAQRQMTKDGFLMYLLSAD GSAFSLAHRRVYQDMGQPLSHYLVSSSHNTYLLLEDQLAGPSSTEAYIRALCKGCRC

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LELDCWDGPNQEPIIYHGYTFTSKILFCDVLRRAIRDYAFKASPPVILSLENHCTLEQQ
 RVMARHLHAILGPMLLNRLDGVNTSLPSPEQLKGKILLKGKKLGGLPPGGEGGPE
 ATVVSEDEEAAEMEDEAVRSRVQHKKPKEDKLRLAQELSDMVIYCKSVHFGGFSSPG
 TPGQAFYEMASFSENRALRLLQESGNGFVRHNVGHLSRIYPAGWRTDSSNYSYPVE
 MWNGGCQIVALNFQTPGPEMDVYQGRFQDNGACGYVLKPAFLRDPNGTFNPRAL
 AQGPWWARKRLNIRVISGQQLPKVKNKNKSIVDPKVTVEIHGVS RDVASRQTAVITN
 NGFNPWWDTFAFEVVVVDLALIRFLVEDYDASSKNDFIGQSTIPLNSLKQGYRHHVH
 LMSKNGDQHPSATLFVKISLQDTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name **PLCD1 phospholipase C delta 1 [Homo sapiens (human)]**

Official Symbol **PLCD1**

Synonyms PLCD1; phospholipase C delta 1; NDNC3; PLC-III; 1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase delta-1; PLC-delta-1; Phospholipase C I 1; epididymis secretory sperm binding protein; phosphoinositide phospholipase C-delta-1; phospholipase C-III; EC 3.1.4.11

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Gene ID	5333
mRNA Refseq	NM_006225
Protein Refseq	NP_006216
MIM	602142
UniProt ID	P51178
SDS-PAGE	