

Product datasheet for **PH308263**

PLCD1 (NM_006225) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	PLCD1 MS Standard C13 and N15-labeled recombinant protein (NP_006216)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC208263
Predicted MW:	85.7 kDa
Protein Sequence:	RC208263
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_006216
RefSeq Size:	2683
RefSeq ORF:	2268
Synonyms:	NDNC3; PLC-III
Locus ID:	5333
UniProt ID:	P51178 , A0A384MR47 , A8K8F9
Cytogenetics:	3p22.2



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Summary:

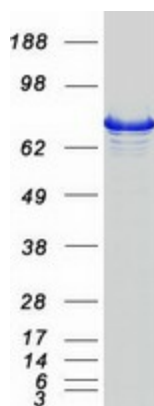
This gene encodes a member of the phospholipase C family. Phospholipase C isozymes play critical roles in intracellular signal transduction by catalyzing the hydrolysis of phosphatidylinositol 4,5-bisphosphate (PIP₂) into the second messengers diacylglycerol (DAG) and inositol triphosphate (IP₃). The 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. [provided by RefSeq, Dec 2011]

Protein Families:

Druggable Genome

Protein Pathways:

Calcium signaling pathway, Inositol phosphate metabolism, Metabolic pathways, Phosphatidylinositol signaling system

Product images:

Coomassie blue staining of purified PLCD1 protein (Cat# [TP308263]). The protein was produced from HEK293T cells transfected with PLCD1 cDNA clone (Cat# [RC208263]) using MegaTran 2.0 (Cat# [TT210002]).