

Product datasheet for PH314863

DPP1 (CTSC) (NM_001814) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	CTSC MS Standard C13 and N15-labeled recombinant protein (NP_001805)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC214863
Predicted MW:	51.84 kDa
Protein Sequence:	>RC214863 representing NM_001814 Red=Cloning site Green=Tags(s) MGAGPSLLLAALLLLLSGDGAVRCDTPANCTYLDLLGTWVFQVGSQSDVNCVSMGPPQEKVYVYLQK LDTAYDDLGNLGHFTIIYNQGFIVLNDYKWFVAFKYKEEGSKVTTYCNETMTGWVHDVLRNWACFTGK KVGTAENVVYNTAHLKNSQEKYSNRLKYDHNFKVAINAIQKSWTATTYMEYETLTLGDMIRRSRGGHSR KIPRPKPAPLTAEQKILHLPTSDWRNVHGINFVSPVRNQASCGSCYSFASMGMLEARIRILTNNST PILSPQEVVSCSQYAQQCEGGFPYLIAGKYAQDFGLVEEACFPYTGTDSPCKMKEDCFRYSSEYHYVGG FYGGCNEALMKLELVHHGPMVAFAFEVYDDFLHYKKGIIYHHTGLRDPFNPFLTNHAVLLVGYGTDASGM DYWIVKNSWGTGWGENGYFRIRRGTDCAIESIAVAATPIPKL TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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_001805
RefSeq Size:	1904
RefSeq ORF:	1389
Synonyms:	CPPI; DPP-I; DPP1; DPPI; HMS; JP; JPD; PALS; PDON1; PLS



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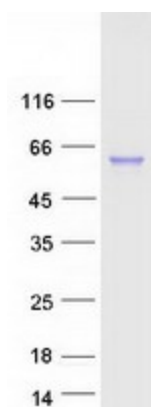
Locus ID: 1075
UniProt ID: [P53634](#)
Cytogenetics: 11q14.2

Summary: This gene encodes a member of the peptidase C1 family and lysosomal cysteine proteinase that appears to be a central coordinator for activation of many serine proteinases in cells of the immune system. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate heavy and light chains that form a disulfide-linked dimer. A portion of the propeptide acts as an intramolecular chaperone for the folding and stabilization of the mature enzyme. This enzyme requires chloride ions for activity and can degrade glucagon. Defects in the encoded protein have been shown to be a cause of Papillon-Lefevre syndrome, an autosomal recessive disorder characterized by palmoplantar keratosis and periodontitis. [provided by RefSeq, Nov 2015]

Protein Families: Druggable Genome, Protease

Protein Pathways: Lysosome

Product images:



Coomassie blue staining of purified CTSC protein (Cat# [TP314863]). The protein was produced from HEK293T cells transfected with CTSC cDNA clone (Cat# [RC214863]) using MegaTran 2.0 (Cat# [TT210002]).