

Product datasheet for **TP314863L**

DPP1 (CTSC) (NM_001814) Human Recombinant Protein

Product data:

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|---------------------------------------|--|
| Product Type: | Recombinant Proteins |
| Description: | Recombinant protein of human cathepsin C (CTSC), transcript variant 1, 1 mg |
| Species: | Human |
| Expression Host: | HEK293T |
| Expression cDNA Clone or AA Sequence: | >RC214863 representing NM_001814 Red =Cloning site Green =Tags(s) |

MGAGPSLLLAALLLLLSGDGAVRCDTPANCTYLDLLGTWVFQVGSSGSQRDVNCSVMGPQEKKVWVYLQK
LDTAYDDLGN SGHFTIINQGF EIVLNDYKWF AFFKYKEEGSKVTTYCNETMTGWVHDV LGRNWACFTGK
KVGTAENVVNTAHLKNSQEKYSNRLYKYDHN FVKAINAIQKSWTATTYMEYETLTLGDMIRRS GGHSR
KIPRPKPAPLTA EIQQKILHLPTS WDWRNVHGINFVSPVRNQASC GSCYFASMG MLEARIRILT NNSQT
PILSPQEWVSCS QYAQGCEGGFPYLIAGKYAQDFGLVEEACFPYTGTDSPCKMKEDCFRYSSEYHYVGG
FYGGCNEALMKLELVHHGPM AVAFEVYDDFLHYKKG IYHHTGLRDPFNP FELTNHAVLLVGYGTD S ASGM
DYWIVKNSWGTGWGENGYFRIRRG TDECAIESIAVAATPIPKL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

| | |
|----------------|--|
| Tag: | C-Myc/DDK |
| Predicted MW: | 49.5 kDa |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method |
| Purity: | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Buffer: | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol |
| Preparation: | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps. |
| Note: | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |
| Storage: | Store at -80°C. |
| Stability: | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| RefSeq: | NP_001805 |



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|---------------|---|
| Locus ID: | 1075 |
| UniProt ID: | P53634 |
| RefSeq Size: | 1904 |
| Cytogenetics: | 11q14.2 |
| RefSeq ORF: | 1389 |
| Synonyms: | CPPI; DPP-I; DPP1; DPPI; HMS; JP; JPD; PALS; PDON1; PLS |

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]).