

Product datasheet for **TP314863**

DPP1 (CTSC) (NM_001814) Human Recombinant Protein

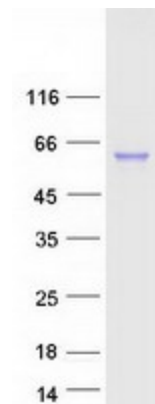
Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human cathepsin C (CTSC), transcript variant 1, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC214863 representing NM_001814 Red =Cloning site Green =Tags(s) MGAGPSLLLAALLLLSGDGAVRCDTPANCTYLDLLGTWVFQVGSSGSQRDVNCSVMGPQEKKVVYLQ K LDTAYDDLGN SGHFTIYNQGF EIVLNDYKWF AFFKYKEEGSKVTTCNETMTGWVHDLGRNWACFTGK KVGTAENVVYVNTAHLKNSQEKYSNRLYKYDHN FVKAINAIQKSWTATTYMEYETLTLGDMIRSGGHSR KIPRPKPAPLTAEIQQKILHLPTSWDWRNVHGINFVSPVRNQASCGSCYSFASMGMLEARIRILTNNST PILSPQEVVSCSQYAQGCEGGFPYLIAGKYAQDFGLVEEACFPYTGTDSPCKMKEDCFRYSSEYHYVGG FYGGCNEALMKLELVHHGPM AVAFEVYDDFLHYKKGIYHHTGLRDPFNP FELTNHAVLLVG YGTDSASG M 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.


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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
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]).