

DPP3 recombinant protein

Recombinant Human DPP3 Protein (His Tag), HPLC-verified

CATALOG # AAA259287	HOST E coli	REACTIVITY Human
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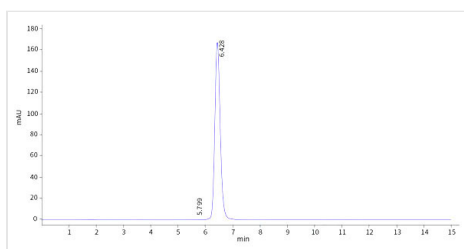
PRODUCT SYNONYMS

DPP3; Recombinant Human DPP3 Protein (His Tag); HPLC-verified; Human DPP3 Protein (His Tag); dipeptidyl-peptidase 3; DPPIII Protein; Human; DPP3 recombinant protein

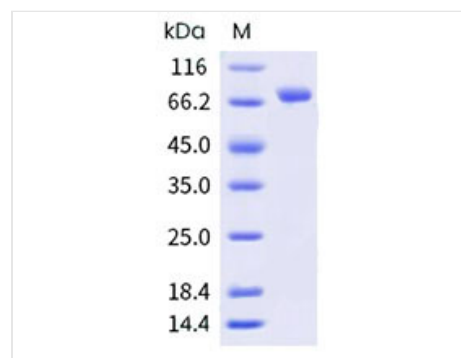
PRODUCT SPECIFICATIONS

Host	E coli
Reactivity	Human
Purity/Purification	>= 95% as determined by SDS-PAGE. >= 95% as determined by SEC-HPLC.
Form/Format	Supplied as sterile 50mM Tris, 150mM NaCl, 10% Glycerol, 0.02% (w/v) Brij-35, pH 9.0. Please contact us for any concerns or special requirements. Please refer to the specific buffer information in the hardcopy of datasheet.
Sequence	Ala2-Ala73 7
Tag	N-His
Predicted N Terminal	Met
Endotoxin	< 1.0 EU perug of the protein as determined by the LAL method
Protein Construction	A DNA sequence encoding the Human DPP3 (Q9NY33)(Ala2-Ala737) was expressed, with a polyhistidine tag at the N-terminus.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. Liquid. It is shipped out with blue ice.

IMAGES



Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for DPP3 recombinant protein	Dipeptidyl peptidase 3 (DPP3) is a zinc-dependent peptidase distributed within the cytoplasm which cleaves dipeptides sequentially from the N-terminus of bioactive peptide substrates 4+ amino acid residues in length. DPP3 adopts a bi-lobed structure and features HEXXGH and EEXRAE/D motifs which coordinate the Zn2+ion in its active site. DPP3's gene is located on chromosome 11q12-13.113. DPP3 regulates the transformation of enkephalin, opioid peptide, terminal protein, and cell signaling. Deficiency results in ROS formation in the kidneys via elevated Angiotensin II (DPP3's most prominent reported substrate), III, IV, and ANG (1-5). DPP3 is linked to the development of cardiovascular diseases through RAS, oxidative stress, and inflammation pathways. Depletion was associated with the upregulation of proapoptotic proteins SMAC and p53, making it a potential target in tumor therapy.
References	1. Y. P. e. al. DPP3. Fro. biomarke. t. therapeuti. targe. o. cardiovascula. diseases. Fron. Cardiovas. Med. 2022. doi. 10.3389/fcvm.2022.97403. 2. Malovan. G.. e. al.. Th. emergin. rol. o. dipeptidy. peptidas. . i. pathophysiology. FEB. J. 2023. doi. 10.1111/febs.1642. 3. Tong. Y.. e. al. DPP3/CDK. contribute. t. th. progressio. o. colorecta. cance. throug. regulatin. cel. proliferation. cel. apoptosis. an. cel. migration. Cel. Deat. Dis. 2021. doi. 10.1038/s41419-021-03796-. 4. Liu. J.. e. al. DPP. expressio. promote. cel. proliferatio. an. migratio. invitr. an. tumou. growt. invivo. whic. i. associate. wit. poo. prognosi. o. oesophagea. carcinoma. Oncolog. Reports. 2023. doi. 10.3892/or.2022.8446

NCBI AND UNIPROT INFORMATION

NCBI GI #	375331941
NCBI GeneID	10072
NCBI Accession #	NP_001243599
NCBI GenBank Nucleotide #	NM_005700
UniProt Accession #	Q9NY33; O95748; Q969H2; Q9BV67; Q9HAL6; B2RDB5; B4DLX4; F5H8L6
Molecular Weight	69,658 Da
NCBI Official Full Name	dipeptidyl peptidase 3 isoform 2
NCBI Official Synonym Full Names	dipeptidyl-peptidase 3
NCBI Official Symbol	DPP3
NCBI Official Synonym Symbols	DPPIII
NCBI Protein Information	dipeptidyl peptidase 3; DPP III; dipeptidyl aminopeptidase III; dipeptidyl arylamidase III; dipeptidyl peptidase III; enkephalinase B
UniProt Protein Name	Dipeptidyl peptidase 3
UniProt Gene Name	DPP3
UniProt Synonym Gene Names	DPP III
UniProt Entry Name	DPP3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.