

Active Recombinant Mouse Dipeptidylpeptidase 4, His-tagged

Cat. No. Dpp4-413M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse Dpp4 protein was expressed in Murine myeloma cell line, NS0-derived, with a C-terminal 9-His tag. Ser29-His760.
Species	Mouse
Source	Mammalian Cells
Protein Length	29-760 a.a.
Description	Dpp4 is a serine exopeptidase that releases Xaa-Pro dipeptides from the N-terminus of oligo- and polypeptides. It is a type II membrane protein consisting of a short cytoplasmic tail, a transmembrane domain, and a long extracellular domain.
Form	Lyophilized from a 0.2 µm filtered solution in Tris and NaCl.
N-terminal Sequence	Ser29
Molecular Weight	86 kDa
Activity	Measured by its ability to cleave the fluorogenic peptide substrate, Gly-Pro-7-amido-4-methylcoumarin (GP-AMC). The specific activity is > 2,500 pmoles/min/µg, as measured under the described conditions. See Activity Assay Protocol.
Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.

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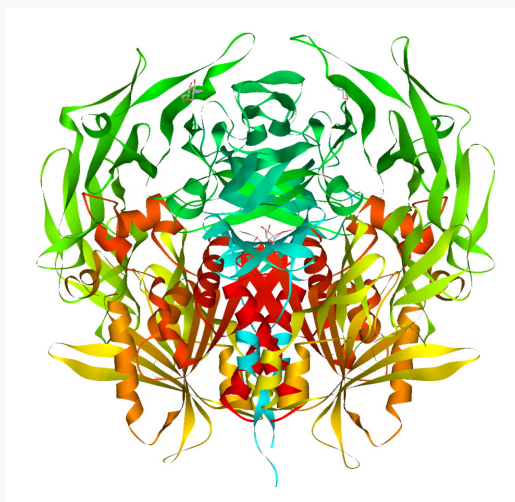
Purity	>95%,by SDS-PAGE under reducing conditions and visualized by silver stain.
Storage	Use amannual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -20 to -70 °C as supplied. 3months, -20 to -70 °C under sterile conditions after reconstitution.
GENE INFORMATION	
Gene Name	Dpp4dipeptidylpeptidase 4 [Mus musculus]
Official Symbol	Dpp4
Synonyms	Dpp4; dipeptidylpeptidase4; Cd26;THAM; Dpp-4; OTTMUSP00000013700;dipeptidyl peptidase 4; DPP IV; dipeptidyl peptidase IV; thymocyte-activatingmolecule; T-cell activation antigen CD26; EC 3.4.14.5; CD26
Gene ID	13482
mRNA Refseq	NM_010074
Protein Refseq	NP_034202
UniProt ID	P28843
Chromosome Location	2
Pathway	Incretin Synthesis, Secretion, andInactivation; Integration of energy metabolism; Metabolism; Protein digestionand Incretin Synthesis, Secretion, and Inactivation; Integration of energymetabolism; Metabolism; Protein digestion and absorption; Regulation ofInsulin Secretion; Synthesis, Secretion, and Inactivation of Glucagon-

likePeptide-1 (GLP-1)

Function

aminopeptidase activity; collagen binding; dipeptidyl-peptidase activity; hydrolase activity; peptidase activity; peptide binding; protease binding; protein homodimerization activity; receptor activity; receptor binding; serine-type endopeptidase activity; serine-type peptidase activity

Ribbondiagram of human DPP-4. From PDB 1PFQ.



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