CNDP2 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P70103
Synonyms:	rMuCytosolic non-specific dipeptidase/CNDP2, His; CNDP2; CNDP dipeptidase 2; Cytosolic non-specific dipeptidase; Glutamate carboxypeptidase-like protein 1; Cn2
Species:	Mouse
Source:	HEK293
Accession:	Q9D1A2 (M1-N475)
Gene ID:	66054
Molecular Weight:	56-60 kDa

PROPERTIES

AA Sequence	MSALKAVFQY IDENQDRYVK KLAEWVAIQS VSAWPEKRGE IRRMMEVAAA DVQRLGGSVE LVDIGKQKLP DGSEIPLPPI LLGKLGSDPQ KKTVCIYGHL DVQPAALEDG WDSEPFTLVE REGKLYGRGS TDDKGPVAGW MNALEAYQKT GQEIPVNLRF CLEGMEESGS EGLDELIFAQ KDKFFKDVDY VCISDNYWLG KNKPCITYGL RGICYFFIEV ECSDKDLHSG VYGGSVHEAM TDLISLMGCL VDKKGKILIP GINDAVAPVT DEEHALYDHI DFDMEEFAKD VGAETLLHSC KKDILMHRWR YPSLSLHGIE GAFSGSGAKT VIPRKVVGKF SIRLVPDMIP EVVSEQVSSY LSKKFAELQS PNKFKVYMGH GGKPWVSDFN HPHYQAGRRA LKTVFGVEPD LTREGGSIPV TLTFQEATGK NVMLLPVGSA DDGAHSQNEK LNRLNYIEGT KMLAAYLYEV SQLKN
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 μm filtered solution of 20 mM Tris-HCl, 150 mM NaCl, 10% Glycerol, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	The CNDP2 protein exhibits a unique function in catalyzing the hydrolysis of peptide bonds in dipeptides, particularly threonyl dipeptides. It plays a tissue-specific role in the catabolism of threonyl dipeptides. Additionally, CNDP2 protein displays significant dipeptidase activity towards cysteinylglycine, which is an intermediate metabolite in glutathione metabolism. It is also involved in the metabolism of N-lactoyl-amino acids, both by hydrolyzing them to form lactic acid and amino acids, as well as through reverse proteolysis to generate these compounds. Furthermore, CNDP2 protein contributes to the regulation of cell cycle arrest and apoptosis.

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