

CNDP2 Protein, Human, Recombinant (E. coli, His)

General Information

Synonyms:	PEPA;Threonyl dipeptidase;CN2;Glutamate carboxypeptidase-like protein 1;CNDP dipeptidase 2;CNDP2;Peptidase A;HEL-S-13;Cytosolic non-specific dipeptidase;CPGL
Protein Construction:	2-475 aa
Species:	Human
Expression Host:	E. coli
Accession:	Q96KP4
Molecular Weight:	56.7 kDa (predicted)
AA Sequence:	AALTTLFKYIDENQDRYIKKLAKWVAIQSVSAWPEKRGERRMMEVAAADVQQLGGSVELVDIGKQKLPDGSE IPLPPILLGRLGSDPQKKTVCYGHLDVQPALEDGWDSEPFLLVERDGKLYGRGSTDGKGPVAGWINALEAY QKTGQEIPVNVRFCLGMEESGSEGLDELIFARKDTFFKDVDYVCISDNYWLGKKKPCITYGLRGICYFFIEVECS NKDLHSGVYGGSVHEAMTDLILLMGLSLVDRGNILIPGINEAVAAVTEEEHKLYDDIDFDIEEFAKDVGQAQILL HSHKKDILMHRWRYPSSLHGIIEGAFSGSAGKTVIPRKVVGKFSIRLVPNMTPEVVGEQVTSYLTKKFAELRSP NEFKVYMGHGGKPWVSDFSHPHYLARRAMKTVFGVEPDLTREGGSIPVTLTFQEQATGKNVMMLLPVGSADD GAHSQNEKLNRYNYIEGTKMLAAYLYEVSQKLD

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

A DRUG SCREENING EXPERT

Catalyzes the peptide bond hydrolysis in dipeptides, displaying a non-redundant activity toward threonyl dipeptides. Mediates threonyl dipeptide catabolism in a tissue-specific way. Has high dipeptidase activity toward cysteinylglycine, an intermediate metabolite in glutathione metabolism. Metabolizes N-lactoyl-amino acids, both through hydrolysis to form lactic acid and amino acids, as well as through their formation by reverse proteolysis. Plays a role in the regulation of cell cycle arrest and apoptosis.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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