

Recombinant Human CNDP2, His-tagged

Cat. No. CNDP2-7215H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CNDP2 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
description	Cytosolic non-specific dipeptidase, also known as CNDP2, is a cytosolic, non-specific dipeptidase that belongs to the peptidase M20A family of proteins. CNDP2 is a secreted peptidase homologous to M20 peptidases. It is expressed by all adult and fetal tissue, however, an isoform lacking exons 3 and 4 was expressed in all fetal tissue, but only in adult liver. Overexpression of CPGL-B in hepatocellular carcinoma cells leads to significant inhibition of HC cell viability, colony formation, cell invasiveness and tumor formation.
source	E. coli
species	Human
tag	His
form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol, 1mM DTT
molecular mass	55.3kDa (498aa)

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aa sequence	MGSSHHHHHH SSGLVPRGSH MGSMAALTTL FKYIDENQDR YIKKLAKWVA IQSVSAWPEK RGEIRRMMEV AAADVKQLGG SVELVDIGKQ KLPDGSEIPL PPILLGRLGS DPQKKTVCIY GHLDVQPAAL EDGWDSEPFT LVERDGKLYG RGSTDDKGPV AGWINALEAY QKTGQEIPVN VRFCLEGMEE SGSEGLDELI FARKDTFFKD VDYVCISDNY WLGKKKPCIT YGLRGICYFF IEVECSNKDL HSGVYGGSVH EAMTDLILLM GSLVDKRGNI LIPGINEAVA AVTEEEHKLY DDIDFDIEEF AKDVGAQILL HSHKKDILMH RWRYPSSLH GIEGAFSGSG AKTVIPRKVV GKFSIRLVPN MTPEVVGEQV TSYLTKKFAE LRSPNEFKVY MGHGGKPWVS DFSHPHYLAG RRAMKTVFGV EPDLTREGGS IPVTLTFQEA TGKNVMLLPV GSADDGAHSQ NEKLNRYNYI EGTKMLAAYL YEVSQKLD
purity	>90% by SDS - PAGE
applications	SDS-PAGE
storage	Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
concentration	1 mg/ml
GENE INFORMATION	
gene name	CNDP2 CNDP dipeptidase 2 (metallopeptidase M20 family) [Homo sapiens]
official symbol	CNDP2
synonyms	CNDP2; CNDP dipeptidase 2 (metallopeptidase M20 family); PEPA, peptidase A; cytosolic non-specific dipeptidase; CN2; CPGL; cytosolic nonspecific dipeptidase (EC 3.4.13.18); FLJ10830; HsT2298; peptidase A; cytosolic nonspecific dipeptidase; glutamate carboxypeptidase-like protein 1; PEPA; FLJ35544;

Gene ID	55748
mrna refseq	NM_001168499
protein refseq	NP_001161971
mim	169800
uniprot id	Q96KP4
chromosome location	18q22.3
pathway	Arginine and proline metabolism, organism-specific biosystem; Arginine and proline metabolism, conserved biosystem; Biological oxidations, organism-specific biosystem; Glutathione conjugation, organism-specific biosystem; Glutathione synthesis and recycling, organism-specific biosystem; Histidine metabolism, organism-specific biosystem; Histidine metabolism, conserved biosystem;
function	carboxypeptidase activity; dipeptidase activity; metal ion binding; metallopeptidase activity; peptidase activity; tripeptidase activity;