

Carnosine Dipeptidase 1 Active Protein | CNDP1 active protein

Recombinant Human Carnosine Dipeptidase 1 Protein

CATALOG #
AAA174600

HOST
Human Cells

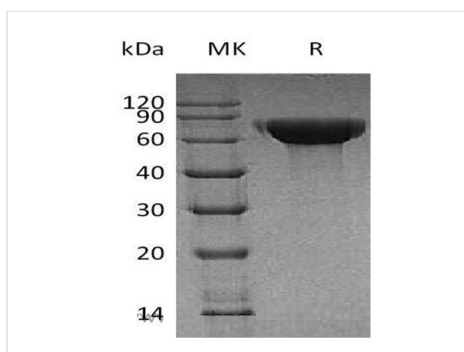
PRODUCT SYNONYMS

Carnosine Dipeptidase 1; Recombinant Human Carnosine Dipeptidase 1 Protein; Beta-Ala-His Dipeptidase; CNDP Dipeptidase 1; Glutamate Carboxypeptidase-Like Protein 2; Serum Carnosinase; CNDP1; CN1; CPGL2; CNDP1 active protein

PRODUCT SPECIFICATIONS

Host	Human Cells
Purity/Purification	>95% as determined by reducing SDS-PAGE.
Form/Format	Supplied as a 0.2 µm filtered solution of 20mM TrisHCl, 150mM NaCl, pH 7.5.
Concentration	0.43mg/mL (varies by lot)
Sequence	Ser27-His507
Sequence Length	507
Species	Human
Endotoxin	<1.0 EU per µg as determined by LAL test.
Fragment	Pro28-His507
Preparation and Storage	Store at < -20 degree C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for CNDP1 active protein	Protein Construction: Recombinant Human Carnosine Dipeptidase 1 is produced by our Mammalian expression system and the target gene encoding Pro28-His507 is expressed with a 6His tag at the C-terminus. Background: Carnosine Dipeptidase 1 (CNDP1) belongs to the M20 metalloprotease family. CNDP1 is specifically expressed in the brain, serum and adult nervous central system. It is identified as human carnosinase. CNDP1 contains trinucleotide (CTG) repeat length polymorphism in the coding region and is inhibited by the metal chelator 1,10-o-phenantrolin. In addition, CNDP1 can hydrolyse the beta-Ala]-His dipeptide (carnosine), anserine, Xaa-]-His dipeptides and other dipeptides including homocarnosine. CNDP1 deficiency has been associated with homocarnosinosis disease.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	21071039
NCBI GeneID	84735
NCBI Accession #	NP_116038.4
NCBI GenBank Nucleotide #	NM_032649.6
UniProt Accession #	Q96KN2; Q14D40; Q17S05; Q2TBG0; Q6UWK2; Q9BT98
Molecular Weight	Molecular Mass: 54.9kDa Actual Protein Molecular Mass: 60-90kDa
NCBI Official Full Name	beta-Ala-His dipeptidase
NCBI Official Synonym Full Names	carnosine dipeptidase 1
NCBI Official Symbol	CNDP1
NCBI Official Synonym Symbols	CN1; CPGL2; HsT2308
NCBI Protein Information	beta-Ala-His dipeptidase
UniProt Protein Name	Beta-Ala-His dipeptidase
UniProt Gene Name	CNDP1
UniProt Synonym Gene Names	CN1; CPGL2

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.