Active Recombinant Mouse CNDP1 Protein, His-tagged

Cat. No. CNDP1-939M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse CNDP1 (Q8BUG2) (Met 1-Tyr 492) was expressed, with an N-terminal signal peptide and a C-terminal polyhistidine tag.
Species	Mouse
Source	HEK293
ProteinLength	1-492 a.a.
Predicted N Terminal	Met 1
Form	Lyophilized from sterile PBS, pH 7.4, 5%~8% trehalose and mannitol.
Bio-activity	Measured by its ability to cleave carnosine (?-Ala-L-His)in a two step assay. The specific activity is >250 pmoles/min/μg.
Molecular Mass	The secreted recombinant mouse CNDP1 comprises 503 amino acids and has a calculated molecular mass of 56.5 kDa. As a result of glycosylation, the apparent molecular mass of the recombinant protein is approximately 55 kDa in SDS-PAGE under reducing conditions.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Purity	>93 % as determined by SDS-PAGE.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Stability	Samples are stable for up to twelve months from date of receipt at -70ºC.
Storage	Store it under sterile conditions at -20ºC~-70ºC. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.25 ug/ul. Centrifuge the vial at 4℃ before opening to recover the entire contents.

GENE INFORMATION

Gene Name	Cndp1 carnosine dipeptidase 1 (metallopeptidase M20 family) [Mus musculus]
Official Symbol	CNDP1
Synonyms	CNDP1; carnosine dipeptidase 1 (metallopeptidase M20 family); beta-Ala-His dipeptidase; carnosinase 1; CNDP dipeptidase 1; Cn1; AI746433;
Gene ID	338403
mRNA Refseq	NM_177450
Protein Refseq	NP_803233
MIM	
UniProt ID	
Pathway	Arginine and proline metabolism, organism-specific biosystem; Arginine and proline metabolism, conserved biosystem; Histidine metabolism, organism-specific biosystem; Histidine metabolism, conserved biosystem; Metabolic pathways, organism-specific biosyst

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Function	carboxypeptidase activity; dipeptidase activity; hydrolase activity; metal ion binding; metallopeptidase activity; peptidase activity; tripeptidase activity;

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