

# Recombinant Human CNDP1 Protein (His Tag)

Catalog Number:PKSH033451



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

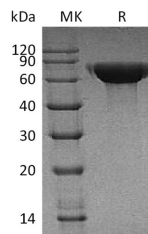
## Description

<b>Synonyms</b>	Beta-Ala-His Dipeptidase;CNDP Dipeptidase 1;Carnosine Dipeptidase 1;Glutamate Carboxypeptidase-Like Protein 2;Serum Carnosinase;CNDP1;CN1;CPGL2;HsT2308
<b>Species</b>	Human
<b>Expression Host</b>	HEK293 Cells
<b>Sequence</b>	Pro28-His507
<b>Accession</b>	AAI13513.1
<b>Calculated Molecular Weight</b>	54.9 kDa
<b>Observed molecular weight</b>	60-90 kDa
<b>Tag</b>	C-His

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
<b>Shipping</b>	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < - 20°C.
<b>Formulation</b>	Supplied as a 0.2 µm filtered solution of 20mM Tris-HCl, 150mM NaCl, pH 7.5.
<b>Reconstitution</b>	Not Applicable

## Data



> 95 % as determined by reducing SDS-PAGE.

## 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-phenantroline. In addition; CNDP1 can hydrolyse the beta-Ala-His dipeptide (carnosine); anserine; Xaa-l-His dipeptides and other dipeptides including homocarnosine. CNDP1 deficiency has been associated with homocarnosinosis disease.

## For Research Use Only

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