



# Recombinant Protein Technical Manual

## Recombinant Human CNDP1 Protein (His Tag)

RPES4622

### Product Data:

**Product SKU:** RPES4622

**Size:** 10µg

**Species:** Human

**Expression host:** Human Cells

**Uniprot:** NP\_116038.4

### Protein Information:

**Molecular Mass:** 54.9 kDa

**AP Molecular Mass:** 68 kDa

**Tag:** C-6His

**Bio-activity:**

**Purity:** > 95 % as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

**Shipping:** 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.

**Formulation:** Supplied as a 0.2 µm filtered solution of 20mM TrisHCl, 150mM NaCl, pH 7.5.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** Beta-Ala-His Dipeptidase; CNDP Dipeptidase 1; Carnosine Dipeptidase 1; Glutamate Carboxypeptidase-Like Protein 2; Serum Carnosinase; CNDP1; CN1; CPGL2; HsT2308

## Immunogen Information:

**Sequence:** Pro28-His507

## 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.