

## 32-6702: CNDP1 Human, Active

<b>Application :</b>	Functional Assay
<b>Alternative Name :</b>	Carnosine Dipeptidase 1 (Metallopeptidase M20 Family), Glutamate Carboxypeptidase-Like Protein 2, CNDP Dipeptidase 1, Serum Carnosinase, Carnosinase 1, CPGL2, CN1, Carnosine Dipeptidase 1, EC 3.4.13.20, HsT2308.

### Description

Source: Sf9, Insect cells.

Sterile filtered colorless solution.

CNDP Dipeptidase 1, also known as CNDP1 is a member of the peptidase M20A family. CNDP1 Mannheim which is the shortest allelic form has been more common in the absence of nephropathy in addition to being associated with lower serum carnosinase levels. Furthermore, Carnosine inhibited the increased production of fibronectin as well as collagen type VI in podocytes and the increased production of TGF-beta in mesangial cells. Diabetic patients with the CNDP1 Mannheim variant are less at risk for nephropathy. In addition, on renal cells carnosine protects against the adverse effects of high glucose levels.

CNDP1 Human Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 489 amino acids (27-507 a.a.) and having a molecular mass of 54.9kDa (Migrates at 50-70kDa on SDS-PAGE under reducing conditions). CNDP1 is expressed with a 8 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

### Product Info

<b>Amount :</b>	2 µg / 10 µg
<b>Purification :</b>	Greater than 95.0% as determined by SDS-PAGE.
<b>Content :</b>	CNDP1 protein solution (0.25mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.
<b>Storage condition :</b>	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.
<b>Amino Acid :</b>	SPSPPPALLE KVFQYIDLHQ DEFVQTLKEW VAIESDSVQP VPRFRQELFR MMAVAADTLQ RLGARVASVD MGPQQLPDGQ SLPIPPVILA ELGSDPTKGT VCFYGHLDVQ PADRGDGLWT DPYVLTEVDG KLYGRGATDN KGPVLAWINA VSAFRALEQD LPVNIKFIE GMEEAGSVAL EELVEKEKDR FFSGVVDYIVI SDNLWISQRK PAITYGTRGN SYFMVEVKCR DQDFHSGTGF GILHEPMADL VALLGSLVDS SGHILVPGIY DEVVPLTEEE INTYKAIHLD LEEYRNSSRV EKFLFDTKEE ILMHLWRYPS LSIHGIEGAF DEPGTKVIP GRVIGKFSIR LVPHMNVSAV EKQVTRHLED VFSKRNSSNK MVSMTLGLH PWIANIDDTQ YLAAKRAIRT VFGTEPDMIR DGSTIPIAKM FQEIVHKSIV LIPLGAVDDG EHSQNEKINR WNYIEGTLKF AAFFLEMAQL HLEHHHHHH.

### Application Note

Specific activity is >3,000 pmol/min/ug, and as measured by the hydrolysis of carnosine per minute at pH6.8 at 25°C.