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32-6701: CNDP1 Human

Alternative Name :	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 produced in Sf9 Insect cells is a single, glycosylated polypeptide chain containing 489 amino acids (27-507a.a.) and having a molecular mass of 54.9kDa. (Molecular size on SDS-PAGE will appear at approximately 50-70kDa).CNDP1 is expressed with an 8 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

Product Info

Amount :	2 µg / 10 µg
Purification :	Greater than 95.0% as determined by SDS-PAGE.
Content :	CNDP1 protein solution (0.25mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.
Storage condition :	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.
Amino Acid :	SPSPPPALLE KVFQYIDLHQ DEFVQTLKEW VAIESDSVQP VPRFRQELFR MMAVAADTLQ RLGARVASVD MGPQQLPDGQ SLPIPPVILA ELGSDPTKGT VCFYGHLDVQ PADRGDGWLT DPYVLTEVDG KLYGRGATDN KGPVLAWINA VSAFRALEQD LPVNIKFIIE GMEEAGSVAL EELVEKEKDR FFSGVDYIVI SDNLWISQRK PAITYGTRGN SYFMVEVKCR DQDFHSGTFG GILHEPMADL VALLGSLVDS SGHILVPGIY DEVVPLTEEE INTYKAIHLD LEEYRNSSRV EKFLFDTKEE ILMHLWRYPS LSIHGIEGAF DEPGTKTVIP GRVIGKFSIR LVPHMNVSAV EKQVTRHLED VFSKRNSSNK MVVSMTLGLH PWIANIDDTQ YLAAKRAIRT VFGTEPDMIR DGSTIPIAKM FQEIVHKSVV LIPLGAVDDG EHSQNEKINR WNYIEGTKLF AAFFLEMAQL HLEHHHHHH.

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