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**Product Data Sheet**


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Product Name: CNDP1 Mouse  
 Cat. No.: GP21490  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Beta-Ala-His dipeptidase; CNDP dipeptidase 1; Carnosinedipeptidase 1.		
Amino Acid Sequence	<p>MFSSAHSGLL EKLFHYIDLH QDEFVQTLKE WVAIESDSVQ          PVPRLRQKLFQMMALAADKL RNLGAGVESI DLGSQQMPDG QSLPIPPILL          AELGSDPEKP TVCFYGHLDV QPAQKDDGWLTDPYTLTEVD GKLYGRGATD          NKGPVLAWIN AVSTFRALQQ DLPVNIKLIL EGMEEAGSIA          LEELVMREKDHFFSSVDYIV ISDNLWLSQR KPALTYGTRG NCYFTVEVKC          RDQDFHSGTF GGILNEPMAD LVALLGSLVDSSGHILIPGI YDQMAPITEG          EKTMYKNIDM DLEEQNINQ VEKFLFDTKE ELLMHLWRYP          SLSIHGIEGAFDEPGTKTVI PGRVLGKFSI RLVPTMSPSV VEKQVTQHLE          AVFSKRNSFN KMAVSMVLGL HPWTANVNDTQYLAAQRTIK TVFGVNPDMI          RDGSTIPIAK IFQAITQKSV MMLPLGAVDD GEHSQNEKIN          RWNVIQGSKLFAAFFLELSK QHSGHQMPSS VYLEHHHHHHH.</p>		
Formulation	CNDP1 protein solution (0.25mg/ml) contains PhosphateBuffered Saline (pH 7.4) and 10% glycerol.		

**Introduction**

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.

**Stability**

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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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.

### Background

CNDP1 produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 500 amino acids (1-492 a.a.) and having a molecular mass of 56.1kDa (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.

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