

Recombinant mouse Carnosine Dipeptidase 1/CNDP1 protein

Catalog Number: ATGP3408

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

1-492aa

UniProt No.

Q8BUG2

NCBI Accession No.

NP_803233

Alternative Names

Beta-Ala-His dipeptidase, CNDP dipeptidase 1, Carnosine dipeptidase 1, CN1, Carnosinase 1

PRODUCT SPECIFICATION

Molecular Weight

56.1 kDa (500aa)

Concentration

0.25mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 95% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

Cndp1, as known as beta-Ala-His dipeptidase, is a member of the M20 metalloprotease family. In human, this protein is secreted from the liver into the serum. In other mammals, including rodents, it is expressed exclusively within the kidney and lacks a signal peptide. Also, it is a secreted homodimeric dipeptidase that specifically hydrolyzes L-carnosine, and is identified as human carnosinase expressed in the brain. Recombinant

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mouse Cndp1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

MFSSAHSGLL EKLPHYIDLH QDEFVQTLKE WVAIESDSVQ PVPRLRQKLF QMMALAADKL RNLGAGVESI DLGSQQMPDG
QSLPIPPILL AELGSDPEKP TVCFYGHLDV QPAQKDDGWL TDPYTLTEVD GKLYGRGATD NKGPVLAWIN AVSTFRALQQ
DLPVNIKLIL EGMEEAGSIA LEELVMREKD HFFSSVDYIV ISDNLWLSQR KPALTYGTRG NCYFTVEVKC RDQDFHSGTF
GGILNEPMAD LVALLGSLVD SSGHILIPGI YDQMAPITEG EKTMYKNIDM DLEEQNINQ VEKFLFDTKE ELLMHLWRYP
SLSIHGIEGA FDEPGTKTVI PGRVLGKFSI RLVPTMSPSV VEKQVTQHLE AVFSKRNSFN KMAVSMVLGL HPWTANVNDT
QYLAAQRTIK TVFGVNPDMI RDGSTIPIAK IFQAITQKSV MMLPLGAVDD GEHSQNEKIN RWNYIQGSKL FAFFLELSK
QHSGHQMPSS VYLEHHHHHH

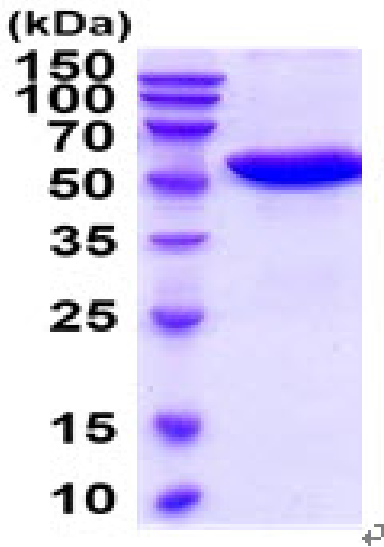
General References

Janssen B., et al, (2005) Diabetes. 54:2320-2327.

Teufel M., et al, (2003) J. Biol. Chem. 278:6521-6531.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)