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

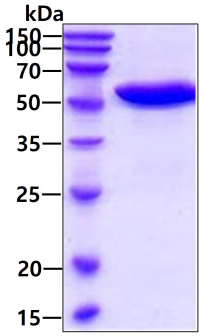
MFSSAHSGLL EKLFHYIDLH QDEFVQTLKE WVAIESDSVQ PVPRLRQKLF QMMALAADKL RNLGAGVESI DLGSQQMPDG QSLPIPPILL AELGSDPEKP TVCFYGHLDV QPAQKDDGWL TDPYTLTEVD GKLYGRGATD NKGPVLAWIN AVSTFRALQQ DLPVNIKLIL EGMEEAGSIA LEELVMREKD HFFSSVDYIV ISDNLWLSQR KPALTYGTRG NCYFTVEVKC RDQDFHSGTF GGILNEPMAD LVALLGSLVD SSGHILIPGI YDQMAPITEG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

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.