

Cndp1, 1-492aa, Mouse, His-tag, Baculovirus

Cat.NO.: TP01659

3th Edition

Synonyms: Beta-Ala-His dipeptidase , Cndp1, A1746433, Cn1.

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

Form: Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.

Molecular Weight: 56.1kDa (500aa), 50-70kDa (SDS-PAGE under reducing conditions)

Sequences:

MFSSAHSGLLEKLFHYIDLHQDEFVQTLKEWVAIESDSVQPVPRRLRQKLFQMMALAADKLRNLGAGVESIDLGSQQ
MPDGQSLPIPPILLAELGSDPEKPTVCFYGHLDVQPAQKDDGWLTPYTLTEVDGKLYGRGATDNKGPVLAWINAV
STFRALQQDLPVNIKLILEGMEEAGSIALEELVMREKDHFFSSVDYIVISDNLWLSQRKPALTYGTRGNCYFTVEVKC
RDQDFHSGTFFGGILNEPMADLVALLGSLVDSSGHILIPGIYDQMAPITEGEKTMYNIDMDLEEYQNINQVEKFLFDT
KEELLMHLWRYP SLSIHGIEGAFDEPGTKTVIPGRVLGKFSIRLVPTMSPSVVEKQVTQHLEAVFSKRNSFNKMAVS
MVLGLHPWTANVNDTQYLAAQRTIKTVFGVNPDMIRDGSTIPIAKIFQAITQKSVMMMLPLGAVDDGEHSQNEKINRW
NYIQGSKLFAAFFLELSKQHSGHQMPSSVYLEHHHHHH

Purity: > 95% by HPLC

Concentration: 0.25mg/ml (determined by Absorbance at 280nm)

Endotoxin Level: <1.0 EU per 1 ug of protein (determined by LAL method)

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.