

Human CNDP2 / CPGL / PEPA Protein (His Tag)

Catalog Number: 10168-H08B



Sino Biological Inc.
Biological Solution Specialist

General Information

Gene Name Synonym:

CN2; CPGL; HEL-S-13; HsT2298; PEPA; 0610010E05Rik; C76600; Cn2; Dip-2; Pep-1; Pep1

Protein Construction:

A DNA sequence encoding the human CNDP2 (CAC69883.1) (Met 1-Asp 475) was expressed, fused with a polyhistidine tag at the C-terminus.

Source: Human

Expression Host: Baculovirus-Insect Cells

QC Testing

Purity: > 94 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Met 1

Molecular Mass:

The secreted recombinant human CNDP2 consists of 485 amino acids and predicts a molecular mass of 54.2 kDa as estimated in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile 50mM Tris, 100mM NaCl, 0.5mM PMSF, pH 8.0

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

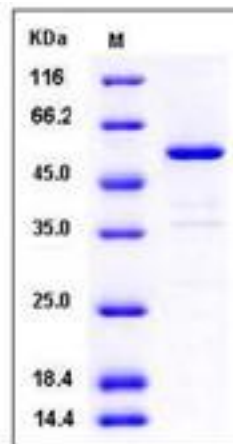
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

Mouse cytosolic non-specific dipeptidase, also known as CNDP dipeptidase 2, Glutamate carboxypeptidase-like protein 1, Peptidase A, CNDP2 and CN2, is a cytoplasm protein which belongs to the peptidase M20A family. CNDP2 / CPGL is a cytosolic enzyme that can hydrolyze carnosine to yield L-histidine and beta-alanine. CNDP2 / CPGL hydrolyzes a variety of dipeptides including L-carnosine but has a strong preference for Cys-Gly. It may play a role as tumor suppressor in hepatocellular carcinoma (HCC) cells. Isoform 1 of CNDP2 / CPGL is ubiquitously expressed with higher levels in kidney and liver (at protein level). Isoform 2 of CNDP2 / CPGL is expressed in fetal tissues, it is only expressed in adult liver and placental tissues. CNDP2 / CPGL is highly expressed in the histaminergic neurons in the tuberomammillary nucleus, implying that it may supply histidine to histaminergic neurons for histamine synthesis.

References

1. Bakker, S.J. et al., 2008, Diabetes 57 (12):e16; author reply e17.
2. Wanic, K. et al., 2008, Diabetes 57 (9): 2547-51.
3. McDonough, C.W. et al., 2009, Hum Genet 126 (2): 265-75.

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