

RP03208

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Recombinant Human CNDP2 Protein

Catalog No.: RP03208

Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Baculovirus-Insect Cells	55748	Q96KP4

Tags

C-His

Synonyms

CN2; CPGL; HEL-S-13; HsT2298; PEPA; Cytosolic non-specific dipeptidase; Glutamate carboxypeptidase-like protein 1; CNDP2

Background

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 M2A 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. Isoform1 of CNDP2 / CPGL is ubiquitously expressed with higher levels in kidney and liver (at protein level). Isoform2 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.

Product Information

Source

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Purification

≥ 95 % as determined by SDS-PAGE.

Endotoxin

< 1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from sterile 50 mM Tris, 100 mM NaCl, 0.5 mM PMSF, pH 8.0. Please contact us for any concerns or special requirements.

Basic Information

Description

Recombinant Human CNDP2 Protein is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Met1-Asp475) of Human CNDP2 (Accession #CAC69883.1) fused with a His tag at the C-terminus.

Bio-Activity

Shipping

Lyophilized proteins are shipped at ambient temperature. Liquid proteins are shipped at frozen temperature with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

Storage

Store at -20°C. Avoid repeated freeze/thaw cycles.

Reconstitution

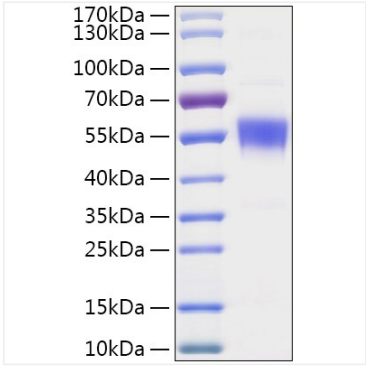
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Contact



www.abclonal.com

Validation Data



Recombinant Human CNDP2 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.