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Recombinant Human CNDP2 Protein

Catalog No.: RP03208 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	55748	Q96KP4

Tags
C-His

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

Product Information

Source	Purification
Baculovirus-Insect Cells	≥ 95 % as determined by SDS-PAGE.

Calculated MW	Observed MW
54.2 kDa	50-60 kDa

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.

Reconstitution
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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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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 thepeptidase 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. Itmay be 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.

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
The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃.Store the lyophilized protein at -20℃ to -80 ℃ up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20℃ for 3 months, at 2-8℃ for up to 1 week.
Avoid repeated freeze/thaw cycles.

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

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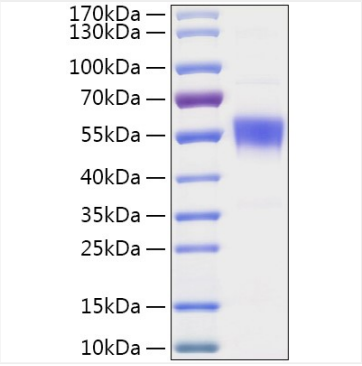
Validation Data



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

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