



Recombinant Protein Technical Manual

Recombinant Human CNDP2/CPGL/PEPA Protein (His Tag) RPES1070

Product Data:

Product SKU: RPES1070

Size: 10µg

Species: Human

Expression host: Baculovirus-Insect Cells

Uniprot: CAC69883.1

Protein Information:

Molecular Mass: 54.2 kDa

AP Molecular Mass: 54.2 kDa

Tag: C-His

Bio-activity:

Purity: > 94 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

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

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: CN2;CPGL;HEL-S3;HsT2298;PEPA

Immunogen Information:

Sequence: Met 1-Asp 475

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 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.