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

Catalog Number: PKSH031810

Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

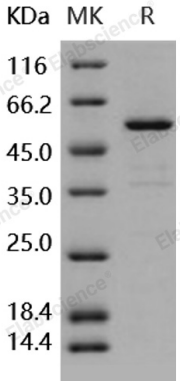
Description

Species	Human
Source	Baculovirus-Insect Cells-derived Human CNDP2/CPGL/PEPA protein Met 1-Asp 475, with an C-terminal His
Calculated MW	54.2 kDa
Observed MW	54.2 kDa
Accession	CAC69883.1
Bio-activity	Not validated for activity

Properties

Purity	> 94 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Generally, 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 Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 94 % as determined by reducing SDS-PAGE.

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 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. 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.

Toll-free: 1-888-852-8623
Tel: 1-832-243-6086
Fax: 1-832-243-6017
Web: www.elabscience.com
Email: techsupport@elabscience.com