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# Recombinant human CNDP2/CPGL protein

Catalog Number: ATGP1915

#### **PRODUCT INFORMATION**

### **Expression system**

E.coli

#### **Domain**

1-475aa

#### UniProt No.

096KP4

#### **NCBI Accession No.**

NP 060705

#### **Alternative Names**

Cytosolic non-specific dipeptidase, CN2, CPGL, HsT2298, PEPA

# PRODUCT SPECIFICATION

### **Molecular Weight**

55.3 kDa (498aa)

#### Concentration

1mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol,1mM DTT

#### **Purity**

> 90% by SDS-PAGE

#### Tag

His-Tag

# **Application**

SDS-PAGE

# **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

#### **Description**

Cytosolic non-specific dipeptidase, also known as CNDP2, is a cytosolic, non-specific dipeptidase that belongs to the peptidase M20A family of proteins. CNDP2 is a secreted peptidase homologous to M20 peptidases. It is expressed by all adult and fetal tissue, however, an isoform lacking exons 3 and 4 was expressed in all fetal tissue, but only in adult liver. Overexpression of CPGL-B in hepatocellular carcinoma cells leads to significant inhibition of HC cell viability, colony formation, cell invasiveness and tumor formation. Recombinant human CNDP2 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional



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chromatography techniques.

# **Amino acid Sequence**

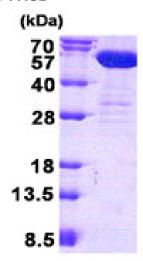
MGSSHHHHHH SSGLVPRGSH MGSMAALTTL FKYIDENQDR YIKKLAKWVA IQSVSAWPEK RGEIRRMMEV AAADVKQLGG SVELVDIGKQ KLPDGSEIPL PPILLGRLGS DPQKKTVCIY GHLDVQPAAL EDGWDSEPFT LVERDGKLYG RGSTDDKGPV AGWINALEAY QKTGQEIPVN VRFCLEGMEE SGSEGLDELI FARKDTFFKD VDYVCISDNY WLGKKKPCIT YGLRGICYFF IEVECSNKDL HSGVYGGSVH EAMTDLILLM GSLVDKRGNI LIPGINEAVA AVTEEEHKLY DDIDFDIEEF AKDVGAQILL HSHKKDILMH RWRYPSLSLH GIEGAFSGSG AKTVIPRKVV GKFSIRLVPN MTPEVVGEQV TSYLTKKFAE LRSPNEFKVY MGHGGKPWVS DFSHPHYLAG RRAMKTVFGV EPDLTREGGS IPVTLTFQEA TGKNVMLLPV GSADDGAHSQ NEKLNRYNYI EGTKMLAAYL YEVSQLKD

#### **General References**

Wanic K., et al. (2008) Diabetes. 57:2547-2551. Otani H., et al. (2008) Neurosci Lett. 445:166-169.

# DATA

#### **SDS-PAGE**



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

