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## Recombinant human CHP protein

Catalog Number: ATGP0597

#### **PRODUCT INFORMATION**

## **Expression system**

E.coli

#### **Domain**

1-195aa

#### **UniProt No.**

099653

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

NP 009167.1

#### **Alternative Names**

Calcium-binding protein p22, SLC9A1BP, Calcineurin B homolog, Calcineurin homologous protein, Calcium-binding protein p22, Calcium binding protein CHP, Sid 470, Sid470, SLC9A1 binding protein, Wrch2

#### **PRODUCT SPECIFICATION**

## **Molecular Weight**

24.7 kDa (216aa) confirmed by MALDI-TOF

#### Concentration

1mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 7.5) containing 10% glycerol

#### **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**

CHP (Calcium-binding protein P22) is a phosphoprotein that binds to the sodium-hydrogen exchangers (NHEs). This protein serves as an essential cofactor which supports the physiological activity of NHE family members. It has protein sequence similarity to calcineurin B and it is also known to be an endogenous inhibitor of calcineurin activity. Recombinant human CHP, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.



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## **Amino acid Sequence**

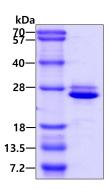
<MGSSHHHHHH SSGLVPRGSH M>MGSRASTLL RDEELEEIKK ETGFSHSQIT RLYSRFTSLD KGENGTLSRE DFQRIPELAI NPLGDRIINA FFPEGEDQVN FRGFMRTLAH FRPIEDNEKS KDVNGPEPLN SRSNKLHFAF RLYDLDKDEK ISRDELLQVL RMMVGVNISD EQLGSIADRT IQEADQDGDS AISFTEFVKV LEKVDVEQKM SIRFLH

#### **General References**

Shigekawa M., et al. (2001) J Biol Chem. 276(20):17367-72. Kojima C., et al (2007) J Biol Chem. 282(4):2741-51.

## **DATA**

#### **SDS-PAGE**



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

