

Recombinant Human Lcium Binding Protein P22, His-tagged

Cat. No. CHP-2583H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CHP, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography.
Species	Human
Source	<i>E.coli</i>
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.
Sequences	MGSSHHHHHH SSGLVPRGSH MMGSRASLL RDEELEEIKK ETGFSHSQIT RLYSRFTSLD KGENGTLSRE DFQRIPELAI NPLGDRIINA FFPEGEDQVN FRGFMRTLAH FRPIEDNEKS KDVNGPEPLN SRSNKLHFAF RLYDLKDDEK ISRDELLQVL RMMVGVNISD EQLGSIADRT IQEADQDGDS AISFTEFVKV LEKVDVEQKM SIRFLH.
Molecular Weight	24.7 kDa(216aa), confirmed by MALDI-TOF.
Form	Liquid. In 20 mM Tris-HCl Buffer (pH 7.5) containing 10% Glycerol.
Purity	> 95% by SDS – PAGE.

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Concentration	1 mg/ml (determined by Bradford assay).
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
GENE INFORMATION	
Gene Name	CHP calcium binding protein P22 [Homo sapiens]
Synonyms	CHP; Calcium binding protein P22; calcium-binding protein p22; calcineurin B homolog; SLC9A1 binding protein; calcium-binding protein CHP; calcineurin homologous protein
Gene ID	11261
mRNA Refseq	NM_007236
Protein Refseq	NP_009167
MIM	606988
UniProt ID	Q99653
Chromosome Location	15q13.3
Pathway	Alzheimer's disease; Amyotrophic lateral sclerosis (ALS); Apoptosis; Axon guidance; B cell receptor signaling pathway; Long-term potentiation; MAPK signaling pathway; Natural killer cell mediated cytotoxicity; Oocyte meiosis; T cell receptor signaling pathway; VEGF signaling pathway; Wnt signaling pathway

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Function

calcium ion binding; potassium channel regulator activity

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