

CHP Human

Description: CHP Recombinant E.coli produced in E.Coli is a single, non-glycosylated polypeptide chain containing 216 amino acids (1-195 a.a.) and having a molecular mass of 24.7 kDa. The CHP is fused to 21 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

Catalog #: PRPS-854

For research use only.

Synonyms: CHP, CHP Human, Calcium-binding protein p22, Calcium-binding protein CHP, Calcineurin homologous protein, Calcineurin B homolog, SLC9A1BP.

Source: Escherichia Coli.

Physical Appearance: Sterile filtered colorless solution.

Amino Acid Sequence: MGSSHHHHHH SSGLVPRGSH MMGSRASSTLL RDEELEEIKK
ETGFSHSQIT RLYSRFTSLD KGENGLTSRE DFQRIPELAI NPLGDRIINAFPEGEDQVN
FRGFMRTLAH FRPIEDNEKS KDVNGPEPLN SRSNKLHFAF RLYDLDKDEK ISRDELLQVL
RMMVGVNISD EQLGSIADRT IQEADQDGDS AISFTEFVKV LEKVDVEQKM SIRFLH.

Purity: Greater than 95.0% as determined by SDS-PAGE.

Formulation:

CHP Human solution containing 20mM Tris HCL pH-7.5, & 10% glycerol.

Stability:

CHP Human although stable at 4°C for 1 week, should be stored desiccated below -18°C. Please prevent freeze thaw cycles.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:

Calcium-binding protein P22 is a phosphoprotein that binds to the sodium-hydrogen exchangers (NHEs). CHP is an essential cofactor which maintains the physiological activity of NHE family members. CHP has protein sequence resemblance to calcineurin B and it is also identified to be an endogenous inhibitor of calcineurin activity. CHP is necessary for constitutive membrane traffic. CHP Inhibits GTPase-stimulated Na(+)/H(+) exchange. CHP inhibits calcineurin phosphatase activity. Required for activity of SLC9A1/NHE1.

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