
Product Data Sheet

Product Name: CHP Human
 Cat. No.: GP23155
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	CHP; CHP Human; Calcium-binding protein p22; Calcium-binding protein CHP; Calcineurin homologous protein; Calcineurin B homolog; SLC9A1BP.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MMGSRASLL RDEELEEIKK ETGFSSHSQIT RLYSRFTSLD KGENGTLSRE DFQRIPELAI NPLGDRIINA FFPEGEDQVN FRGFMRTL AH FRPIEDNEKS KDVNGPEPLN SRSNKLHFAF RLYDLDKDEK ISRDELLQVL RMMVGVNISD EQLGSIADRT IQEADQDGDS AISFTEFVKV LEKVDVEQKM SIRFLH.		
Formulation	CHP Human solution containing 20mM Tris-HCl pH-7.5 & 10% glycerol.		

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.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

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.

Caution: Product has not been fully validated for medical applications. For research use only.

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The CHP is fused to 21 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

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