## **PRODUCT INFORMATION**

Expression system E.coli

**Domain** 1-147aa

**UniProt No.** Q9Y2V2

NCBI Accession No. NP\_055131

Alternative Names

Calcium-regulated heat stable protein 1, CRHSP-24, CSDC1, MGC111446, Calcium-regulated heat stable protein 1

# **PRODUCT SPECIFICATION**

Molecular Weight 18 kDa (167aa) confirmed by MALDI-TOF

**Concentration** 0.5mg/ml (determined by BCA assay)

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

**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

CRAHSP1 is a serine phosphoprotein originally identified as a physiological substrate for the Ca2+-calmodulin regulated protein phosphatase calcineurin (PP2B). This protein interacts with the STYX/dead phosphate protein in developing spermatids and is a paralog of the brain-specific mRNA-binding protein PIPPIN. It is thought to play a common role in calcium-mediated signal transduction resulting from phosphorylation on serine residues. Recombinant human CRAHSP1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques



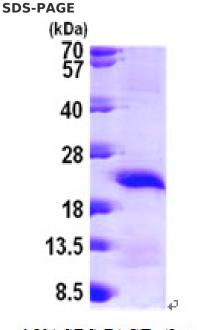
#### **Amino acid Sequence**

MGSSHHHHHH SSGLVPRGSH MSSEPPPPPQ PPTHQASVGL LDTPRSRERS PSPLRGNVVP SPLPTRRTRT FSATVRASQG PVYKGVCKCF CRSKGHGFIT PADGGPDIFL HISDVEGEYV PVEGDEVTYK MCSIPPKNEK LQAVEVVITH LAPGTKHETW SGHVISS

#### **General References**

Schafer C., et al. (2003) Am J Physiol Gastrointest Liver Physiol.. 285:G726-34 Groblewski G.E, et al. (1998) J. Biol. Chem. 273: 22738-22744.





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

15% SDS-PAGE (3ug)