

# Recombinant Human Calcium Regulated Heat Stable Protein 1, 24kDa, His-tagged

**Cat. No.** CARHSP1-4236H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	CRAHSP1 Human Recombinant fused with a 20 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 167 amino acids (1-147 a.a.) and having a molecular mass of 18kDa. The CRAHSP1 is purified by proprietary chromatographic techniques.
<b>Species</b>	Human
<b>Source</b>	Human
<b>ProteinLength</b>	1-147 a.a.
<b>Description</b>	CRAHSP1 is a serine phosphoprotein initially identified as a physiological substrate for the Ca <sup>2+</sup> -calmodulin regulated protein phosphatase calcineurin (PP2B). CRAHSP1 interacts with the STYX/dead phosphate protein in developing spermatids and is a paralog of the brain-specific mRNA-binding protein PIPPIN. It is believed to have a common role in calcium-mediated signal transduction resulting from phosphorylation on serine residues.
<b>Form</b>	The CRAHSP1 solution (0.5 mg/ml) contains 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol and 0.1M NaCl.
<b>Purity</b>	Greater than 90.0% as determined by SDS-PAGE.
<b>Physical Appearance</b>	Sterile Filtered colorless solution.

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**Amino acid sequence** MGSSHHHHHH SSGLVPRGSH MSSEPPPPPQ PPTHQASVGL LDTPRSRERS  
PSPLRGNVVP SPLPTRRTRT FSATVRASQG PVYKGVCKCF CRSKGHGFIT  
PADGGPDIFL HISDVEGEYV PVEGDEVITYK MCSIPPKNEK LQAVEVVITH  
LAPGTKHETW SGHVISS.

**Storage** CRAHSP1 should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

## GENE INFORMATION

**Gene Name** [CARHSP1 calcium regulated heat stable protein 1, 24kDa \[ Homo sapiens \]](#)

**Official Symbol** [CARHSP1](#)

**Synonyms** CARHSP1; calcium regulated heat stable protein 1, 24kDa; CSDC1; CRHSP-24; MGC111446; calcium-regulated heat stable protein 1; calcium-regulated heat-stable protein (24kD); calcium-regulated heat-stable protein of 24 kDa; calcium regulated heat stable protein 1 (24kD)

**Gene ID** [23589](#)

**mRNA Refseq** [NM\\_001042476](#)

**Protein Refseq** [NP\\_001035941](#)

**UniProt ID** [Q9Y2V2](#)

**Chromosome Location** 16p13.2

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**Function**

DNA binding; phosphatase binding

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