# **PRODUCT INFORMATION**

**Expression system** E.coli

**Domain** 1-253aa

**UniProt No.** Q9Y696

NCBI Accession No. NP\_039234

Alternative Names

Chloride intracellular channel protein 4, CLIC4L, DKFZp566G223, FLJ38640, H1, huH1, MTCLIC, P64h1

# **PRODUCT SPECIFICATION**

**Molecular Weight** 30.9 kDa (273aa) confirmed by MALDI-TOF

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

**Formulation** Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 1mM DTT, 10% glycerol

**Purity** > 95% 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

CLIC4 (chloride intracellular channel 4), also known as H1, CLIC4L or MTCLIC, is a 253 amino acid single-pass membrane protein that localizes to both the nucleus and the cytoplasm and contains one GST C-terminal domain. CLIC4 functions as a monomer that is able to form selective ion channels in target proteins, thereby facilitating the transport of chloride and other ions. CLIC4 is thought to play a role in apoptosis and has been shown to translocate to the nucleus under stress conditions. Recombinant human CLIC4 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 MALSMPLNGL KEEDKEPLIE LFVKAGSDGE SIGNCPFSQR LFMILWLKGV VFSVTTVDLK RKPADLQNLA PGTHPPFITF NSEVKTDVNK IEEFLEEVLC PPKYLKLSPK HPESNTAGMD IFAKFSAYIK NSRPEANEAL ERGLLKTLQK LDEYLNSPLP DEIDENSMED IKFSTRKFLD GNEMTLADCN LLPKLHIVKV VAKKYRNFDI PKEMTGIWRY LTNAYSRDEF TNTCPSDKEV EIAYSDVAKR LTK

### **General References**

Malik M., et al. (2010) J Biol Chem. 285(31):23818-28. Shukla A., et al. (2009) Nat Cell Biol. 11(6):777-84.

### DATA



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

15% SDS-PAGE (3ug)