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# Recombinant human CLIC1 protein

Catalog Number: ATGP0568

#### **PRODUCT INFORMATION**

### **Expression system**

E.coli

#### **Domain**

1-241aa

#### **UniProt No.**

000299

#### **NCBI Accession No.**

NP 001279.2

#### **Alternative Names**

Chloride intracellular channel protein 1, G6, NCC27, Chloride intracellular channel protein 1 hRNCC, Nuclear chloride ion channel 27, p64CLCP, Chloride channel ABP, Chloride intracellular channel 1, CLIC 1, NCC 27, Nuclear chloride ion channel protein, Regulatory nuclear chloride ion channel protein, RNCC protein.

#### **PRODUCT SPECIFICATION**

#### **Molecular Weight**

29.0 kDa (261aa), confirmed by MALDI-TOF

#### Concentration

1mg/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**

CLIC1 (Chloride intracellular channel 1), also referred to as NCC27, is a member of the highly conserved family of chloride ion channels that function in both soluble and integral membrane forms. This protein is a monomeric protein that contains a redox-active site similar to glutaredoxin; it functions as an anion-selective channel. It forms a dimer when oxidized and is then able to form chloride ion channels in bilayers and vesicles, whereas a



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reducing environment prevents this from occurring. Recombinant human CLIC1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

### **Amino acid Sequence**

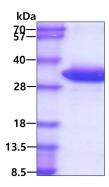
<MGSSHHHHHH SSGLVPRGSH> MAEEQPQVEL FVKAGSDGAK IGNCPFSQRL FMVLWLKGVT FNVTTVDTKR RTETVQKLCP GGQLPFLLYG TEVHTDTNKI EEFLEAVLCP PRYPKLAALN PESNTAGLDI FAKFSAYIKN SNPALNDNLE KGLLKALKVL DNYLTSPLPE EVDETSAEDE GVSQRKFLDG NELTLADCNL LPKLHIVQVV CKKYRGFTIP EAFRGVHRYL SNAYAREEFA STCPDDEEIE LAYEQVAKAL K

#### **General References**

Warton K, et al. (2002) J Biol Chem. 277(29):26003-11. Singh H,et al. (2007) FEBS J. 274(24):6306-16

# **DATA**

### **SDS-PAGE**



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

