Recombinant human CLIC1 protein

Catalog Number: ATGP0568

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-241aa

UniProt No.
O00299

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

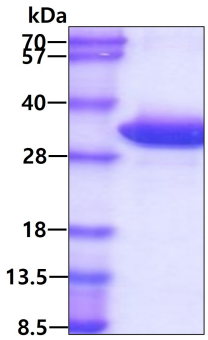
<MGSSHHHHHH SSGLVPRGSH> MAEEQPQVEL FVKAGSDGAK IGNCPFSQRL FMVLWLKGVT FNVTTVDTKR RTETVQKLCP GGQLPFLLYG TEVHTDTNKI EEFLEAVLCP PRYPKLAALN PESNTAGLDI FAKFSAYIKN SNPALNDNLE KGLLKALKVL DNYLTSPLPE EVDETSAEDE GVSQRKFLDG NELTLADCNL LPKLHIVQVV CKKYRGFTIP EAFRGVHRYL SNAYAREEFA STCPDDEEIE LAYEQVAKAL K

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.