

Recombinant Human CLCN3 Protein, His-tagged

Cat. No. CLCN3-01H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human CLCN3 Protein(NP_001230301.1), fused to His-tag, was expressed in E. coli.
Species	Human
Source	E.coli
Description	<p>This gene encodes a member of the voltage-gated chloride channel (ClC) family. The encoded protein is present in all cell types and localized in plasma membranes and in intracellular vesicles. It is a multi-pass membrane protein which contains a ClC domain and two additional C-terminal CBS (cystathionine beta-synthase) domains. The ClC domain catalyzes the selective flow of Cl⁻ ions across cell membranes, and the CBS domain may have a regulatory function. This protein plays a role in both acidification and transmitter loading of GABAergic synaptic vesicles, and in smooth muscle cell activation and neointima formation. This protein is required for lysophosphatidic acid (LPA)-activated Cl⁻ current activity and fibroblast-to-myofibroblast differentiation. The protein activity is regulated by Ca(2+)/calmodulin-dependent protein kinase II (CaMKII) in glioma cells. Multiple alternatively spliced transcript variants encoding different isoforms have been identified.</p>
Form	Lyophilized from 20 mM Tris-HCl, 0.15 M NaCl, 0.05% Brij78, 6% Trehalose, pH 8.0. The volume before lyophilization is 100µl/vial.
Molecular Mass	93.2 kDa, reducing condition.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

AA Sequence

MESEQLFHRGYRNSYNSITSASSDEELLDGAGVIMDFQTSEDDNLLDGDTAVGTH
 YTM TNGGSINSSTHLLDLLDEPIPGVGTYYDDFHTIDWVREKCKDRERHRRINSKKKE
 SAWEMTKSLYDAWSGWLVTTLTGLASGALAGLIDIAADWMTDLKEGICLSALWYNH
 EQCCWGSNETTFEERDKCPQWKTWAEIIGQAEGPGSYIMNYIMYIFWALSFAFLAV
 SLVKVFAPYACGSGIPEIKTILSGFIIRGYLGKWTLMIKTITLVLAVASGLSLGKEGPLV
 HVACCCGNIFSYPKYSTNEAKKREVLSAASAAGVSVAFGAPIGGVLFSLLEVSYY
 FPLKTLWRSFFAALVAAFVLR SINPFGNSRLVLFYVEYHTPWYLFELFPFILLGVFGGL
 WGAFFIRANIAWCRRRKSTKFGKYPVLEVIIVAAITAVIAFPNPYTRLNTSELIKELFTD
 CGPLESSSLCDYRNDMNASKIVDDIPDRPAGIGVYS AIWQLCLALIFKIIMTVFTFGIKV
 PSLGFIP SMAIGAIAGRIVGIAVEQLAYYHHDWFIFKEWCEVGADCITPGLYAMVGAA
 ACLGGVTRMTVSLVVIVFELTGGLEYIVPLMAAVMTSKWVGDAFGREGIYEAHIRLN
 GYPFLDAKEEFTHHTLAADV MRPRRNDPPLAVLTQDNMTVDDIENMINETS YNGFPV
 IMSKESQRLVGFLRRDLTIAIESARKKQEGIVGSSRVCFAQHTPSLPAESPRPLKLRSI
 LDMSPTVTDHTPMEIVVDIFRKLGLRQCLVTHNGRLLGIITKKDILRHMAQTANQDP
 ASIMFNHHHHHH

Purity

≥85%, by SDS-PAGE

Storage

Store it under sterile conditions at -20 to -80 °C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

GENE INFORMATION
Gene Name

CLCN3 chloride voltage-gated channel 3 [Homo sapiens (human)]

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Official Symbol	CLCN3
Synonyms	CLC3; CIC-3
Gene ID	1182
mRNA Refseq	NM_001243372.2
Protein Refseq	NP_001230301.1
MIM	600580
UniProt ID	P51790

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