CLCN3 Protein, Human (Cell-Free, His)

Cat. No.:	HY-P702244
Synonyms:	H(+)/Cl(-) exchange transporter 3; Chloride channel protein 3; ClC-3; Chloride transporter ClC-3
Species:	Human
Source:	E. coli Cell-free
Accession:	P51790 (M1-N818)
Gene ID:	1182
Molecular Weight:	93.2 kDa

PROPERTIES

AA Sequence	MASMTGGQQM GRDPMESEQL FHRGYYRNSY NSITSASSDE ELLDGAGVIM DFQTSEDDNL LDGDTAVGTH YTMTNGGSIN SSTHLLDLLD EPIPGVGTYD DFHTIDWVRE KCKDRERHRR INSKKKESAW EMTKSLYDAW SGWLVVTLTG LASGALAGLI DIAADWMTDL KEGICLSALW YNHEQCCWGS NETTFEERDK CPQWKTWAEL IIGQAEGPGS YIMNYIMYIF WALSFAFLAV SLVKVFAPYA CGSGIPEIKT ILSGFIIRGY LGKWTLMIKT ITLVLAVASG LSLGKEGPLV HVACCCGNIF SYLFPKYSTN EAKKREVLSA ASAAGVSVAF GAPIGGVLFS LEEVSYYFPL KTLWRSFFAA LVAAFVLRSI NPFGNSRLVL FYVEYHTPWY LFELFPFILL GVFGGLWGAF FIRANIAWCR RRKSTKFGKY PVLEVIIVAA ITAVIAFPNP YTRLNTSELI KELFTDCGPL ESSSLCDYRN DMNASKIVDD IPDRPAGIGV YSAIWQLCLA LIFKIIMTVF TFGIKVPSGL FIPSMAIGAI AGRIVGIAVE QLAYYHHDWF IFKEWCEVGA DCITPGLYAM VGAAACLGGV TRMTVSLVVI VFELTGGLEY IVPLMAAVMT SKWVGDAFGR EGIYEAHIRL NGYPFLDAKE EFTHTTLAAD VMRPRRNDPP LAVLTQDNMT VDDIENMINE TSYNGFPVIM SKESQRLVGF ALRRDLTIAI ESARKKQEGI VGSSRVCFAQ HTPSLPAESP RPLKLRSILD MSPFTVTDHT PMEIVVDIFR KLGLRQCLVT HNGRLLGIIT KKDILRHMAQ TANQDPASIM FN
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 μm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. For long term storage it is recommended to add 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.

Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	CLCN3 protein functions as a strongly outwardly rectifying, electrogenic H(+)/Cl(-) exchanger, facilitating the exchange of chloride ions against protons. As a member of the CLC channel family, which encompasses both chloride channels and proton-coupled anion transporters, CLCN3 is involved in the exchange of chloride or another anion for protons. The family's characteristic presence of conserved gating glutamate residues suggests its members' functionality as antiporters. The robust outward rectification and electrogenic nature of CLCN3 underscore its role in the dynamic exchange between chloride ions and protons.

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