CLIC4/Chloride intracellular channel 4 Protein, Human (His)

Cat. No.:	HY-P70120
Synonyms:	rHuChloride intracellular channel protein 4/CLIC4, His; Chloride Intracellular Channel Protein 4; Intracellular Chloride Ion Channel Protein p64H1; CLIC4
Species:	Human
Source:	E. coli
Accession:	Q9Y696 (M1-K253)
Gene ID:	25932
Molecular Weight:	Approximately 32.0 kDa

PROPERTIES

AA Sequence	M A L S M P L N G L K E E D K E P L I E L F V K A G S D G E S I G N C P F S Q R L F M I L W L K G V V F S V T T V D L K R K P A D L Q N L A P G T H P P F I T F N S E V K T D V N K I E E F L E E V L C P P K Y L K L S P K H P E S N T A G M D I F A K F S A Y I K N S R P E A N E A L E R G L L K T L Q K L D E Y L N S P L P D E I D E N S M E D I K F S T R K F L D G N E M T L A D C N L L P K L H I V K V V A K K Y R N F D I P K E M T G I W R Y L T N A Y S R D E F T N T C P S D K E V E I A Y S D V A K R L T K
Appearance	Solution.
Formulation	Supplied as a 0.2 μm filtered solution of 20 mM Tris-HCl, 100 mM NaCl, 1 mM DTT, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	CLIC4, known as Chloride Intracellular Channel 4, has the ability to insert into membranes, forming ion channels with poor selectivity, potentially facilitating chloride ion transport. Its channel activity is pH-dependent and its membrane insertion appears to be redox-regulated, occurring specifically under oxidizing conditions. Beyond ion transport, CLIC4 plays diverse roles, including promoting cell-surface expression of HRH3 and participating in various cellular functions such as angiogenesis, maintenance of apical-basolateral membrane polarity during mitosis and cytokinesis, as well as regulation of endothelial cell proliferation and morphogenesis. It is a part of a multimeric complex involving cytoskeletal proteins like

	actin, ezrin, alpha-actinin, gelsolin, IQGAP1, and CLIC5A. CLIC4 interacts directly with brain dynamin I within a complex containing actin, tubulin, and 14-3-3 isoforms, and it also interacts with HRH3 and AKAP9.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA