Product Data Sheet

Product Name:	CLIC1 Human
Cat. No.:	GP23175
Batch No.:	1

Product Data

Purity	>98%	Source	Escherichia Coli.
Phycical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	ACBP; ACBD1; CCK-RP; EP; CLIC1; G6; NCC27; Nuclear chloride ion channel 27; Chloride channel ABP; Regulatory nuclear chloride ion channel protein; hRNCC; Chloride intracellular channel protein 1.		
Amino Acid Sequence	GSSHHHHHH 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.		
Formulation	CLIC1 Human solution containing 20mM Tris-HCl pH-8, 0.1M NaCl & 10% glycerol.		

Introduction

Chloride channels are various group of proteins that control fundamental cellular processes including stabilization of cell membrane potential, transepithelial transport, regulation of intracellular pH, and maintenance of cell volume. CLIC1 is part of the p64 family and is localized to the cell nucleus. CLIC1 displays both nuclear and plasma membrane chloride ion channel activity. CLIC1 inserts into membranes and forms chloride ion channels. CLIC1 channel activity depends on the pH. CLIC1 membrane insertion is redox-regulated and happens under oxydizing conditions.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.

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Background

CLIC1 Human Recombinant produced in E.Coli is a single, non-glycosylated,polypeptide chain containing 261amino acids (1-241a.a.) and having a molecular mass of 29 kDa. CLIC1 protein is fused to a 20 amino acid His tag at N-terminus and is purified by standard chromatography.

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