

CLC3 Blocking Peptide (C-term)
Synthetic peptide
Catalog # BP6329e**Specification**

CLC3 Blocking Peptide (C-term) - Product Information

Primary Accession [P51790](#)
Other Accession [P51792](#), [O18894](#), [P51791](#), [O14918](#)

CLC3 Blocking Peptide (C-term) - Additional Information

Gene ID 1182

Other Names

H(+)/Cl(-) exchange transporter 3, Chloride channel protein 3, CLC-3, Chloride transporter CLC-3, CLCN3

Target/Specificity

The synthetic peptide sequence is selected from aa 677~691 of HUMAN CLCN3

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

CLC3 Blocking Peptide (C-term) - Protein Information

Name CLCN3

Function

[Isoform 1]: Strongly outwardly rectifying, electrogenic H(+)/Cl(-)exchanger which mediates the exchange of chloride ions against protons (By similarity). The CLC channel family contains both chloride channels and proton-coupled anion transporters that exchange chloride or another anion for protons (PubMed:29845874). The presence of conserved gating glutamate residues is typical for family members that function as antiporters (PubMed:29845874).

Cellular Location

[Isoform 1]: Early endosome membrane; Multi-pass membrane protein. Late endosome membrane; Multi-pass membrane protein. Lysosome membrane {ECO:0000250|UniProtKB:P51791}; Multi-pass membrane protein. Cell membrane {ECO:0000250|UniProtKB:P51792}; Multi-pass membrane protein. Note=Isoform 1 is localized

mainly in late endosomes.

Tissue Location

Expressed primarily in tissues derived from neuroectoderm. Within the brain, its expression is particularly evident in the hippocampus, olfactory cortex, and olfactory bulb. Highly expressed in aortic and coronary vascular smooth muscle cells, and aortic endothelial cells. Also expressed in tracheal and alveolar epithelial cells, and intima and media of the pulmonary vessels Expressed in bronchus and colon (at protein level)

CLC3 Blocking Peptide (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

CLC3 Blocking Peptide (C-term) - Images**CLC3 Blocking Peptide (C-term) - References**

Salazar, G., et al., J. Biol. Chem. 279(24):25430-25439 (2004).
Gentzsch, M., et al., J. Biol. Chem. 278(8):6440-6449 (2003).
Olsen, M.L., et al., J. Neurosci. 23(13):5572-5582 (2003).
Hermoso, M., et al., J. Biol. Chem. 277(42):40066-40074 (2002).
Huang, P., et al., J. Biol. Chem. 276(23):20093-20100 (2001).