

Recombinant Human MCOLN3 Protein (A2-K533), MBP tagged

Cat. No. MCOLN3-0771H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human N-MBP-3C-TEV-TRPML3 (A2-K533 end) Protein was expressed in Insect cell.
Species	Human
Source	Insect Cells
ProteinLength	A2-K533
Description	Nonselective ligand-gated cation channel probably playing a role in the regulation of membrane trafficking events. Acts as Ca(2+)-permeable cation channel with inwardly rectifying activity. Mediates release of Ca(2+) from endosomes to the cytoplasm, contributes to endosomal acidification and is involved in the regulation of membrane trafficking and fusion in the endosomal pathway. Does not seem to act as mechanosensory transduction channel in inner ear sensory hair cells. Proposed to play a critical role at the cochlear stereocilia ankle-link region during hair-bundle growth. Involved in the regulation of autophagy. Through association with GABARAPL2 may be involved in autophagosome formation possibly providing Ca(2+) for the fusion process. Through a possible and probably tissue-specific heteromerization with MCOLN1 may be at least in part involved in many lysosome-dependent cellular events. Possible heteromeric ion channel assemblies with TRPV5 show pharmacological similarity with TRPML3.
Form	Liquid

 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

Endotoxin	< 0.01 EU per µg of the protein
Purity	90%
Stability	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Formulation:
Shipping	It is shipped out with blue ice.

GENE INFORMATION

Gene Name	MCOLN3 mucolipin 3 [Homo sapiens (human)]
Official Symbol	MCOLN3
Synonyms	MCOLN3; mucolipin 3; mucolipin-3; FLJ11006; TRP ML3; TRPML3; TRP-ML3; FLJ36629; MGC71509;
Gene ID	55283
mRNA Refseq	NM_001253693
Protein Refseq	NP_001240622
MIM	607400

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UniProt ID

Q8TDD5

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