

Recombinant Full Length Human MCOLN1 Protein, GST-tagged

Cat. No. MCOLN1-6086HF **Lot. No.** (See product label)

SPECIFICATION	
Product Overview	Human MCOLN1 full-length ORF (NP_065394.1, 1 a.a. - 580 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	580 amino acids
Description	This gene encodes a member of the transient receptor potential (TRP) cation channel gene family. The transmembrane protein localizes to intracellular vesicular membranes including lysosomes, and functions in the late endocytic pathway and in the regulation of lysosomal exocytosis. The channel is permeable to Ca(2+), Fe(2+), Na(+), K(+), and H(+), and is modulated by changes in Ca(2+) concentration. Mutations in this gene result in mucopolipidosis type IV. [provided by RefSeq, Oct 2009]
Molecular Mass	91.4 kDa
AA Sequence	MTAPAGPRGSETERLLTPNPGYGTQAGPSPAPPTPPEEEDLRRRLKYFFMSPCDKF RAKGRKPCKLMLQVVKILVVTVQLILFGLSNQLAVTFREENTIAFRHLFLLGYSDGAD DTFAAYTREQLYQAIFHAVDQYLALPDVSLGRYAYVRGGGDPWTNGSGLALCQRY HRGHVDPANDTFDIDPMVVTDCIQVDPPERPPPPPSDDLTLLESSSSYKNLTLKFHK LVNVTIHFRLKTINLQSLINNEIPDCYTFSVLITFDNKAHSGRIPISLETQAHIQECHKPS VFQHGDNFRLLFDVVILTCSLSFLLCARSLLRGFLQNEFVGFMWRQRGRVISLW

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ERLEFVNGWYILLVTSDVLTISGTIMKIGIEAKNLASYDVCSILLGTSTLLVWVGVI RYL
TFFHNYNILIATLRVALPSVMRFCCCVAVIYLG YCFCGWIVLGPYHVKFRSLSMVSEC
LFSLINGDDMFVTFAAMQAQQGRSSLVWLFSQLYLYSFISLFIYMVLSLFIALITGAYD
TIKHPGGAGAESE LQAYIAQCQDSPTSGKFRRSGSACSL LCCCGRDPSEEHSLL
VN

Applications

Enzyme-linked Immunoabsorbent Assay
Western Blot (Recombinant protein)
Antibody Production
Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

[MCOLN1 mucolipin 1 \[Homo sapiens \]](#)

Official Symbol

[MCOLN1](#)

Synonyms

MCOLN1; mucolipin 1; mucolipin-1; ML4; MLIV; MST080; MSTP080; TRPM L1;
TRPML1; mucolipidin; mucolipidosis type IV protein; MG-2; TRP-ML1; TRPM-L1;

Gene ID

[57192](#)

mRNA Refseq

[NM_020533](#)

Protein Refseq

[NP_065394](#)

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MIM	605248
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UniProt ID	Q9GZU1
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