TRPM1 Human Protein

PRODUCT OVERVIEW

Product Name	TRPM1, Protein
Full Product Name	Human TRPM1-Strep full length protein-synthetic nanodisc
Product Gene Name	TRPM1 protein
Product Synonym Names	CSNB1C; LTRPC1; MLSN1
Host	HEK293
Form/Format	Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5%-8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions. Do not use solvents with pH lower
Preparation and Storage	Store at -20 degree C to -80 degree C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80 degree C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
Molecular Weight	15,099 Da
OMIM	AF071787 mRNA
3D Structure	ModBase 3D Structure for Q7Z4N2
Tag	C-DYKDDDDK&Strep
Product Categories/Family for TRPM1 protein	Full Length Transmembrane Proteins; Ion Channels: Transient receptor potential
Related Product Information for TRPM1 protein	This gene encodes a member of the transient receptor potential melastatin subfamily of transient receptor potential ion channels. The encoded protein is a calcium permeable cation channel that is expressed in melanocytes and may play a role in melanin synthesis. Specific mutations in this gene are the cause autosomal recessive complete congenital stationary night blindness-1C. The expression of this protein is inversely correlated with melanoma aggressiveness and as such it is used as a prognostic marker for melanoma metastasis. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Oct 2011]
Other Notes	Small volumes of TRPM1 protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for TRPM1 purchase	MBS1883815 is a protein targeting TRPM1. Also known as Human TRPM1-Strep full length protein-synthetic nanodisc. Host: HEK293.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TRPM1. It may not necessarily be applicable to this product.

NCBI GI #	354721145
NCBI GeneID	4308
NCBI Accession #	NP_001238949.1
UniProt Primary Accession #	Q7Z4N2
UniProt Secondary Accession #	O75560; Q6PE48; Q7Z4N1; Q7Z4N3; Q7Z4N4; Q7Z4N5; D9IDV2; D9IDV3; F8W865; H0YN37
UniProt Related Accession #	Q7Z4N2

GenBank Nucleotide #	NM_001252020.1
NCBI Official Full Name	transient receptor potential cation channel subfamily M member 1 isoform 1
NCBI Official Synonym Full Names	transient receptor potential cation channel subfamily M member 1
NCBI Official Symbol	TRPM1
NCBI Official Synonym Symbols	MLSN1; CSNB1C; LTRPC1
UniProt Protein Name	Transient receptor potential cation channel subfamily M member 1
UniProt Synonym Protein Names	Long transient receptor potential channel 1; LTrpC1; Melastatin-1
Protein Family	Transient receptor potential cation channel subfamily
UniProt Gene Name	TRPM1
UniProt Synonym Gene Names	LTrpC1
NCBI Protein Information	transient receptor potential cation channel subfamily M member 1
UniProt Comments for TRPM1	TRPM1: a transient receptor potential (TRP) ion channel. TRP voltage-independent calcium-permeable cation channels are divided into six subfamilies, two of which (TRPC and TRPM) have members that are widely expressed. Its expression is inversely correlated with melanoma aggressiveness, suggesting that it suppresses melanoma metastasis. Protein type: Channel, calcium; Membrane protein, integral; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 15q13.3 Cellular Component: integral to plasma membrane; plasma membrane Molecular Function: calcium channel activity Biological Process: metabotropic glutamate receptor signaling pathway; transport; visual perception Disease: Night Blindness, Congenital Stationary, Type 1c
Research Articles on TRPM1	**1.** genotype-phenotype correlations showed that this eye phenotype was secondary to homozygous deletion of TRPM1, the gene responsible for autosomal recessive congenital stationary night blindness. The main differential diagnosis is ceroid lipofuscinosis.
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