

Recombinant Rat Trpm4 Protein, His-tagged

Cat. No. Trpm4-491R Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Trpm4 Protein (Met1-Leu400) with N-His tag was expressed in E. coli.
Species	Rat
Source	E.coli
ProteinLength	Met1-Leu400
Description	Enables calcium activated cation channel activity. Involved in several processes, including ion homeostasis; negative regulation of osteoblast differentiation; and regulation of blood circulation. Located in several cellular components, including Golgi apparatus; endoplasmic reticulum; and neuronal cell body. Biomarker of cardiac arrest. Human ortholog(s) of this gene implicated in erythrokeratoderma variabilis et progressiva 6 and progressive familial heart block type IB. Orthologous to human TRPM4 (transient receptor potential cation channel subfamily M member 4).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 43.8 kDa
Purity	> 97%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.

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Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1 mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Trpm4 transient receptor potential cation channel, subfamily M, member 4 [<i>Rattus norvegicus</i> (Norway rat)]
Official Symbol	Trpm4
Synonyms	TRPM4; transient receptor potential cation channel, subfamily M, member 4; transient receptor potential cation channel subfamily M member 4; LTrpC4; melastatin-like 2; melastatin like 2 protein; long transient receptor potential channel 4; calcium-activated non-selective cation channel 1; MIs2s; LTrpC-4
Gene ID	171143
mRNA Refseq	NM_001136229
Protein Refseq	NP_001129701
UniProt ID	Q9ESQ5

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