

PRODUCT INFORMATION

Tag C-Flag Tag TRPM8 **Target**

Synonyms LTRPC6, LTrpC-6, TRPP8, trp-p8

Human TRPM8 full length protein-synthetic **Description**

nanodisc **Delivery** 6~8weeks **Uniprot ID** Q7Z2W7 **Expression Host HEK293**

Protein Families Ion Channels: Transient receptor potential

Protein Pathways N/A

The human full length TRPM8 protein has a MW of **Molecular Weight**

127.7kDa

Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before Formulation & Reconstitution lyophilization. Please see Certificate of Analysis

Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Storage & Shipping

Lyophilized proteins are shipped at ambient

temperature.

Receptor-activated non-selective cation channel involved in detection of sensations such as coolness, by being activated by cold temperature below 25 degrees Celsius. Activated by icilin, eucalyptol, menthol, cold and modulation of intracellular pH. Involved in menthol seinsation. Permeable for monovalent cations sodium, potassium, and cesium and divalent cation calcium. Temperature sensing is tightly linked to voltage-dependent gating. Activated upon depolarization, changes in temperature resulting

in graded shifts of its voltage-dependent

activation curves. The chemical agonist menthol functions as a gating modifier, shifting activation

curves towards physiological membrane

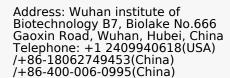
potentials. Temperature sensitivity arises from a tenfold difference in the activation energies associated with voltage-dependent opening and closing. In prostate cancer cells, shows strong inward rectification and high calcium selectivity in contrast to its behavior in normal cells which is characterized by outward rectification and poor cationic selectivity. Plays a role in prostate cancer cell migration (PubMed:25559186). Isoform 2 and isoform 3 negatively regulate menthol- and coldinduced channel activity by stabilizing the closed state of the channel.[UniProtKB/Swiss-Prot

> Email: info@dimabio.com Website: www.dimabio.com

Function]

Usage Research use only

Conjugate Unconjugated



Background

