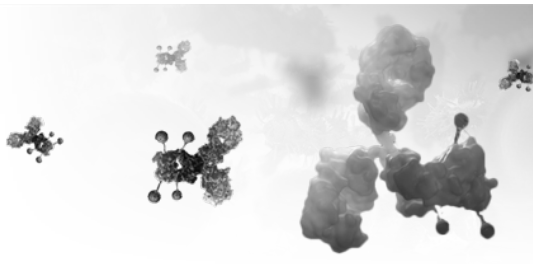

Human TRPM8 peptide (DAG-P1247)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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 sensation. 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 agonists 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.
Specificity	Expressed in prostate. Also expressed in most in prostate tumors. Also expressed in non-prostatic primary tumors such as colon, lung, breast and skin tumors.
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the transient receptor (TC 1.A.4) family. LTrpC subfamily. TRPM8 sub-subfamily.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	TRPM8 transient receptor potential cation channel, subfamily M, member 8 [Homo sapiens (human)]

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Official Symbol	TRPM8
Synonyms	TRPM8; transient receptor potential cation channel, subfamily M, member 8; TRPP8; LTRPC6; transient receptor potential cation channel subfamily M member 8; trp-p8; LTrpC-6; transient receptor melastatin 8; transient receptor potential p8; short form of the TRPM8 cationic channel; long transient receptor potential channel 6; transient receptor potential subfamily M member 8;
Entrez Gene ID	79054
mRNA Refseq	NM_024080.4
Protein Refseq	NP_076985.4
UniProt ID	Q7Z2W7
Chromosome Location	2q37.1
Pathway	Inflammatory mediator regulation of TRP channels, organism-specific biosystem; Inflammatory mediator regulation of TRP channels, conserved biosystem; Ion channel transport, organism-specific biosystem; Stimuli-sensing channels, organism-specific biosystem; TRP channels, organism-specific biosystem; Transmembrane transport of small molecules, organism-specific biosystem;
Function	calcium channel activity; protein homodimerization activity;

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