

TRPV3 Protein, Human (Cell-Free, His, Flag)

Cat. No.:	HY-P702477
Synonyms:	Transient receptor potential cation channel subfamily V member 3; Vanilloid receptor-like 3; VRL-3
Species:	Human
Source:	E. coli Cell-free
Accession:	Q8NET8 (M1-V790)
Gene ID:	162514
Molecular Weight:	93.1 kDa

PROPERTIES

AA Sequence

MKAHPKEMVP	LMGKRVAAPS	GNPAILPEKR	PAEITPTKKS
AHFFLEIEGF	EPNPTVAKTS	PPVFSKPMDS	NIRQCISGNC
DDMDS PQSPQ	DDVTETPSNP	NSPSAQLAKE	EQRRKKRRLK
KRIFA AVSEG	CVEELVELLV	ELQELCRRRH	DEDVPDFLMH
KLTASDTGKT	CLMKALLNIN	PNTKEIVRIL	LAFAEENDIL
GRFINAEYTE	EAYEGQTALN	IAIERRQGDI	AALLIAAGAD
VNAHAKGAFF	NPKYQHEGFY	FGETPLALAA	CTNQPEIVQL
LMEHEQTDIT	SRDSRGNNIL	HALVTVAEDF	KTQNDFVKRM
YDMILLRSGN	WELETRRND	GLTPLQLAAK	MGKAEILKYI
LSREIKEKRL	RSLSRKFTDW	AYGPVSSSLY	DLTNVDTTTD
NSVLEITVYN	TNIDNRHEML	TLEPLHTLLH	MKWKKFAKHM
FFLSFCFYFF	YNITLTLVSY	YRPREEEAIP	HPLALTHKMG
WLQLLGRMFV	LIWAMCISVK	EGIAIFLLRP	SDLQSILSDA
WFHFVFFIQA	VLVILSVFLY	LFAYKEYLAC	LVLAMALGWA
NMLYYTRGFQ	SMGMYSVMIQ	KVILHDVLFK	LFVYIVFLLG
FGVALASLIE	KCPKDNKDCS	SYGSFSDAVL	ELFKLTIGLG
DLNIQQNSKY	PILFLFLLIT	YVILTFVLLL	NMLIALMGET
VENVSKESER	IWRLQRARTI	LEFEKMLPEW	LRSRFRMGEL
CKVAEDDFRL	CLRINEVKWT	EWKTHVSFLN	EDPGPVRRTD
FNKIQDSSRN	NSKTTLNAFE	EVEEFPETSV	

Appearance Lyophilized powder.

Formulation Lyophilized from a 0.22 µm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Endotoxin Level <1 EU/µg, determined by LAL method.

Reconstitution It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH₂O. For long term storage it is recommended to add 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.

Storage & Stability

Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

Shipping

Room temperature in continental US; may vary elsewhere.

DESCRIPTION**Background**

TRPV3, identified as a putative receptor-activated non-selective calcium-permeant cation channel, responds to innocuous (warm) temperatures and displays heightened activity at noxious temperatures exceeding 39 degrees Celsius. This channel exhibits outward rectification and has been proposed to associate with TRPV1, potentially influencing its activity. Functionally, TRPV3 serves as a negative regulator of hair growth and cycling, as its signaling suppresses keratinocyte proliferation in hair follicles, induces apoptosis, and contributes to premature hair follicle regression (catagen). The possibility of forming a heteromeric channel with TRPV1 further underscores its role in thermosensation and cellular processes. TRPV3's interactions with TRPV1 emphasize its potential involvement in modulating diverse physiological responses.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA