

TRPV2 Protein, Rat (Cell-Free, His)

Cat. No.:	HY-P702476
Synonyms:	Transient receptor potential cation channel subfamily V member 2; Osm-9-like TRP channel 2; OTRPC2; Stretch-activated channel 2B; Vanilloid receptor-like protein 1; VRL-1
Species:	Rat
Source:	E. coli Cell-free
Accession:	Q9WUD2 (M1-P761)
Gene ID:	29465
Molecular Weight:	88.2 kDa

PROPERTIES

AA Sequence

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MTSASSPPAF RLETS DGDEE GNAEVNKGKQ EPPPMESP FQ
REDRNS SPQI KVNLFNFKRP PKNTSAPSQQ EPDRFDRDRL
FSVVS RGVPE ELTG LLEYLR WNSKYLTDSA YTEGSTGKTC
LMKAVLNLQD GVNACIMPLL QIDKDSGNPK LLVNAQCTDE
FYQGHSA LHI AIEKRSLQCV KLLVENGADV HLRACGRFFQ
KHQGT C FYFG ELP LSLA ACT KQWDVVTYLL ENPHQPASLE
ATDSL GN TVL HALVMIADNS PENSALVIHM YDGLLQMGAR
LCPTV QLEEI SNHQGLTPLK LAAKEGKIEI FRHILQREFS
GPYQP LSRKF TEWCYGPV RV SLYDLSSVDS WEKNSVLEII
AFHCK SPNRH RMVVLEPLNK LLQEKWDR LV SRFFFNFACY
LVYMF IFTVV AYHQPSLDQP AIPSSKATFG ESMLLLGHIL
ILLGG IYLLL GQLWYFWR RR LFIWISF MDS YFEILFLLQA
LLTVLS QVLR FMETEWYLP L LVLSLVLGWL NLLYYTRGFQ
HTGIYS VMIQ KVI LRDL LRF LLVYLVFLFG FAVALVSLSR
EARS PKAP ED NNSTVTEQPT VGQEEEPAPY RSILDASLEL
FKFT IGMG EL AFQEQLRFRG VVLLLLLLAYV LLTYVLLLNM
LIA LMSETVN HVADNSWSIW KLQKAI SVLE MENGYWWCRR
KKHREG RLLK VGTRGDGTPD ERWCFRVEEV NWA AWEK TLP
T LSEDP SGGP ITGNKKNPTS KPGKNSASEE DHLPLQVLQS
P

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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**

TRPV2, a calcium-permeable, non-selective cation channel, exhibits outward rectification and is potentially regulated by growth factors such as IGF1, PDGF, and morphogenetic neuropeptide/head activator. This channel may play a role in transducing physical stimuli in mast cells. It is activated by temperatures exceeding 52 degrees Celsius but remains unresponsive to vanilloids and acidic pH. TRPV2 is likely organized as a homotetramer and interacts with a cAMP-dependent protein kinase type II regulatory subunit (PRKAR2A or PRKAR2B) and ACBD3. Additionally, TRPV2 engages in an interaction with SLC50A1, possibly within intracellular compartments, and this interaction is contingent on TRPV2 N-glycosylation. These molecular interactions suggest a multifaceted regulatory network governing TRPV2 function and responsiveness to various stimuli.

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

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