

## TRPV2 Protein, Rat, Recombinant (His)

## General Information

Synonyms:	TrpV2;Vrl1;Transient receptor potential cation channel subfamily V member 2;Sac2b;Osm-9-like TRP channel 2 (OTRPC2);Vanilloid receptor-like protein 1 (VRL-1);Stretch-activated channel 2B
Protein Construction:	1-761 aa
Species:	Rat
Expression Host:	E. coli
Accession:	Q9WUD2
Molecular Weight:	88.2 kDa (predicted)
AA Sequence:	<p>MTSASSPPAFRLETS DGDEEGNAEVNKGKQEPPEMESPQREDRNSSPQIKVNLNFIKRPPKNTSAPSQQEP  DRFDRDRLFSVVS RGVPEELTGLLEYL RWN SKYL TDSAYTEGSTGKTCLMKAVLNLQDGVNACIMPLLQIDKD  SGNPKLLVNAQCTDEFYQGH SALHIAIEKRSLQCVKLLVENGADVHLRACGRFFQKHQGTCTFYFGELPLSLAA  CTKQWDVVTYLLENPHQPASLEATDSLGN TVLHALVMIADNSPENSALVIHMYDGLLQMGARLCPTVQLEEI  SNHQGLTPLKLAKEGKIEIFRHILQREFSGPYQPLSRKFTEWCYGPVRSVSLYDLSSVDSWEKNSVLEIIAFHCK  SPNRHRMVVLEPLNKLKQEKWDRLVSRFFNFACYLVYMFIFTVVAYHQPSLDQPAIPSSKATFGESMLLLGHI  LILGGIYLLLGQLWYFWRRLFIWISFMDSYFEILFLLQALLTVLSQVLRFMETEWYLP LLVLSLVLGWLNLLYY  TRGFQHTGIYSVMIQKVILRDLLRFLLVYLVFLGFAVALVLSLSREARSPKAPEDNNSTVTEQPTVGQEEEPAPY  RSILDASLELFKFTIGMELAFQEQLRFRGVLLLLLAYVLLTYVLLLNMLIALMSETVNHVADNSWSIWKLQKA  ISVLEMENGYWWCRRKKHREGRLKVGTRGDGTPDERWCFRVEEVNWAWEKTLPTLSEDPSPGPGITGNKK  NPTSKPGKNSASEEDHLPLQLQSP</p>

## QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

## Preparation and Storage

## Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

## Stability &amp; Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

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### Protein Background

Calcium-permeable, non-selective cation channel with an outward rectification. Seems to be regulated, at least in part, by growth factors, like IGF1, PDGF and morphogenetic neuropeptide/head activator. May transduce physical stimuli in mast cells. Activated by temperatures higher than 52 degrees Celsius; is not activated by vanilloids and acidic pH.

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