

PRODUCT INFORMATION

C-Flag Tag Tag TRPV1 **Target**

Synonyms VR1

Human TRPV1 full length protein-synthetic **Description**

nanodisc **Delivery** In Stock **Uniprot ID** Q8NER1

Expression Host HEK293

Protein Pathways

Reconstitution

Druggable Genome, Ion Channels: Transient **Protein Families** receptor potential, Transmembrane

Neuroactive ligand-receptor interaction

The human full length TRPV1 protein has a MW of **Molecular Weight**

95.0 kDa

Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% Formulation &

- 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.

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 Storage & Shipping at -80°C (Avoid repeated freezing and thawing).

Lyophilized proteins are shipped at ambient

temperature.

Capsaicin, the main pungent ingredient in hot chili peppers, elicits a sensation of burning pain by selectively activating sensory neurons that convey information about noxious stimuli to the central nervous system. The protein encoded by this gene is a receptor for capsaicin and is a non-

selective cation channel that is structurally related to members of the TRP family of ion **Background** channels. This receptor is also activated by increases in temperature in the noxious range,

suggesting that it functions as a transducer of painful thermal stimuli in vivo. Four transcript variants encoding the same protein, but with different 5' UTR sequence, have been described

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for this gene.

Research use only Usage

Conjugate Unconjugated

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ELISA assay to evaluate TRPV1-Nanodisc 0.2µg Human TRPV1-Nanodisc per well

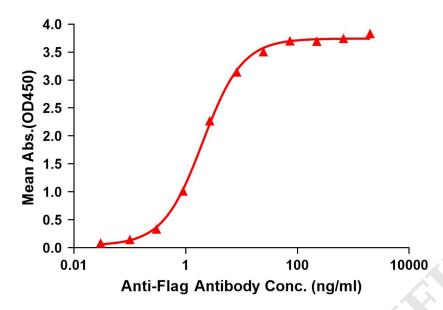


Figure 1. Elisa plates were pre-coated with Flag Tag TRPV1-Nanodisc ($0.2\mu g/per$ well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with TRPV1-Nanodisc is 2.027ng/ml.



Figure 2. WB analysis of Human TRPV1-Nanodisc with anti-Flag monoclonal antibody at 1/5000 dilution, followed by Goat Anti-Rabbit IgG HRP at 1/5000 dilution

[title text="Cited in Literature" color="rgb(21, 94, 173)" icon="icon-pen-alt-fill"]

Li, J., Zhou, Z., Wu, Y., Zhao, J., Duan, H., Peng, Y., Wang, X., Fan, Z., Yin, L., Li, M., Liu, F., Yang, Y., Du, L., Li, J., Zhong, Hou, W., Zhang, F., Ma, H., & Zhang, X. (2025). Heat acclimation defense against exertional heat stroke by impreving through the property of the proper Biotechnology B7, Biolake No.666 Gaoxin Road, Wuhan, Hubei, China Telephone: +1 2409940618(USA) /+86-18062749453(China) Website: www.dimabio.com

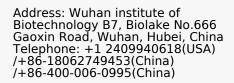
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