

PRODUCT INFORMATION

C-Flag&Strep Tag Tag

TRPV1 **Target Synonyms** VR1

Expression Host

Storage & Shipping

Background

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

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

Druggable Genome, Ion Channels: Transient **Protein Families**

receptor potential, Transmembrane **Protein Pathways** Neuroactive ligand-receptor interaction

HEK293

The human full length TRPV1-Strep protein has a **Molecular Weight**

MW of 95.0 kDa

Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis

Formulation & Reconstitution for specific instructions. Do not use solvents with a pH below 6.5 or those containing high concentrations of divalent metal ions (greater

than 5 mM) in subsequent experiments. 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 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 is a receptor for capsaicin and is a non-selective cation channel that is structurally related to members of

the TRP family of ion 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 for this gene.

Usage Research use only Conjugate Unconjugated

> Email: info@dimabio.com Website: www.dimabio.com





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

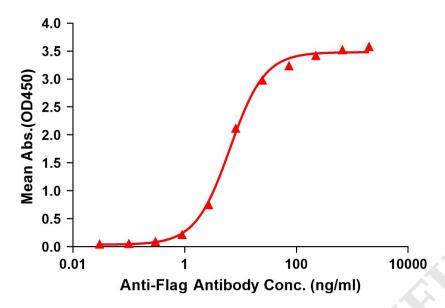


Figure 1. Elisa plates were pre-coated with C-Flag&Strep Tag TRPV1-Strep-Nanodisc (0.2 μ g/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with TRPV1-Strep-nanodisc is 6.491ng/ml.

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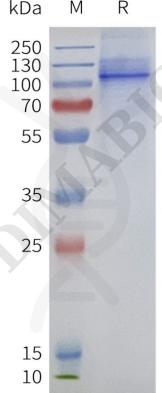


Figure 2. Human TRPV1-Strep-Nanodisc, C-Flag&Strep Tag on SDS-PAGE

