Cat. No. FLP120128A



PRODUCT INFORMATION

N-MBP Tag, C-Flag&Strep Tag Tag

TRPV1 **Target Synonyms** VR1

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

synthetic nanodisc

Delivery In Stock **Uniprot ID** Q8NER1 **Expression Host HEK293**

Formulation &

Reconstitution

Storage & Shipping

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

receptor potential, Transmembrane

Protein Pathways Neuroactive ligand-receptor interaction

The human full length MBP-TRPV1-Strep protein **Molecular Weight**

has a MW of 135.0 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 for specific instructions. Lyophilized from PBS. Normally 5% - 8% trehalose is added as

protectants before lyophilization. Please see Certificate of Analysis for specific instructions. Do not use solvents with pH lower than 6.5 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 **Background** 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

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described for this gene.

Usage Research use only

Conjugate Unconjugated





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

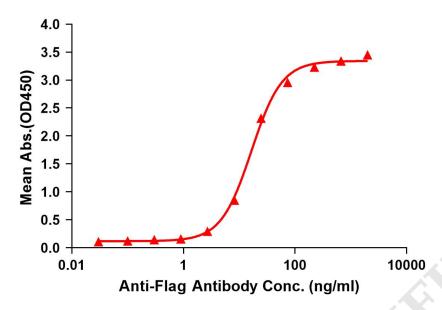


Figure 1. Elisa plates were pre-coated with N-MBP Tag, C-Flag&Strep Tag MBP-TRPV1-Strep-Nanodisc (0.2µg/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with MBP-TRPV1-Strep-Nanodisc is 16.57ng/ml.

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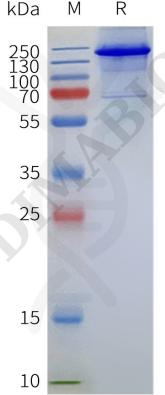


Figure 2. Human MBP-TRPV1-Strep-Nanodisc with N-MBP Tag, C-Flag&Strep Tag on SDS-PAGE

