

## **PRODUCT INFORMATION**

C-Flag Tag Tag TRPA1 **Target** 

**Synonyms** ANKTM1; FEPS; FEPS1

Human TRPA1 full length protein-synthetic **Description** 

nanodisc **Delivery** In Stock **Uniprot ID** 075762 **Expression Host HEK293** 

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

receptor potential, Transmembrane

**Protein Pathways** 

**Background** 

The human full length TRPA1 protein has a MW of **Molecular Weight** 

127.5 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 Formulation & Reconstitution lyophilization. Please see Certificate of Analysis

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.

The structure of the protein is highly related to both the protein ankyrin and transmembrane proteins. This protein is activated by a large variety of structurally unrelated electrophilic and non-electrophilic chemical compounds.

Electrophilic ligands activate TRPA1 by interacting with critical N-terminal Cys residues in a covalent

manner, whereas mechanisms of non-

electrophilic ligands are not well determined. May be a component for the mechanosensitive transduction channel of hair cells in inner ear, thereby participating in the perception of sounds. Probably operated by a phosphatidylinositol

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second messenger system.

Usage Research use only

Unconjugated Conjugate





## ELISA assay to evaluate TRPA1-Nanodisc 0.2µg Human TRPA1-Nanodisc per well

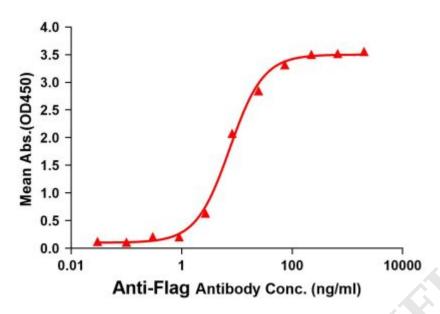


Figure 1. Elisa plates were pre-coated with Flag Tag TRPA1-Nanodisc ( $0.2\mu g/per$  well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with TRPA1-Nanodisc is 7.433ng/ml.

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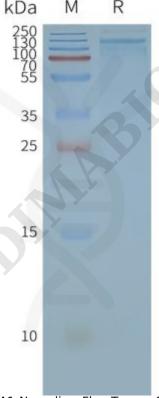


Figure 2. Human TRPA1-Nanodisc, Flag Tag on SDS-PAGE





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