HUMAN TRPA1 FULL LENGTH PROTEIN

Cat.#: 11016

Product Name: Human TRPA1 Full Length Protein

Size : 10 µg, 50 µg and 100 µg

Synonyms: ANKTM1; FEPS; FEPS1

Target: TRPA1

UNIPROT ID: O75762

Description: Human TRPA1 full length protein-synthetic nanodisc

Background: 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 second messenger system.

Species/Host: HEK293

Molecular Weight: The human full length TRPA1 protein has a MW of 127.5 kDa

Formulation & Reconstitution: 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.

Storage & Shipping: 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.

FOR RESEARCH USE ONLY. NOT FOR DIAGNOSTIC APPLICATIONS

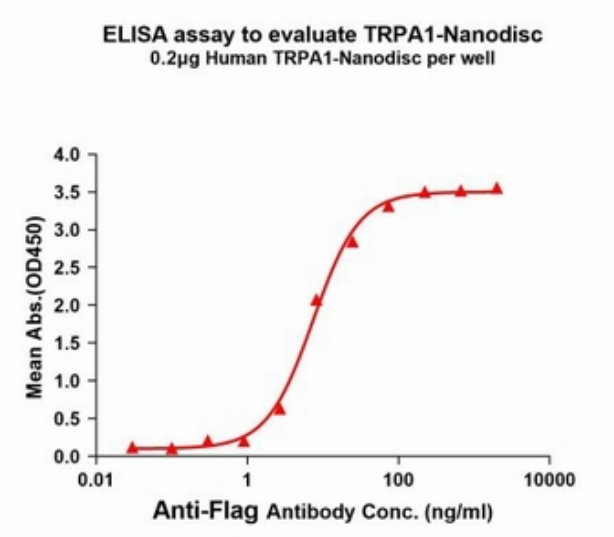

Figure1. Elisa plates were pre-coated with Flag Tag TRPA1-Nanodisc (0.2 μg/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with TRPA1-Nanodisc is 7.433ng/ml.

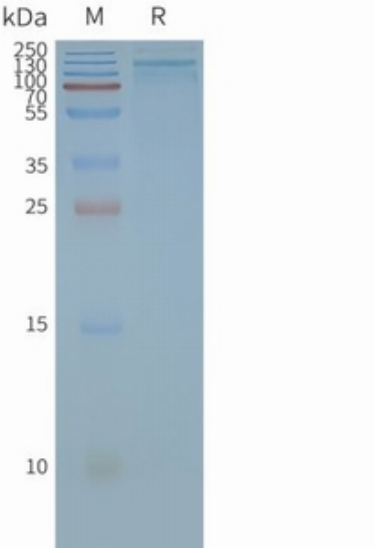

Figure2. Human TRPA1-Nanodisc, Flag Tag on SDS-PAGE

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