

PRODUCT INFORMATION

C-Flag Tag Tag **Target** OR3A1

OLFRA03; OR17-40; OR17-82; OR40 **Synonyms**

Human OR3A1 full length protein-synthetic **Description**

nanodisc **Delivery** In Stock **Uniprot ID** P47881 **Expression Host HEK293**

Storage & Shipping

Background

Protein Families Druggable Genome, Transmembrane

Protein Pathways Olfactory transduction

The human full length OR3A1 protein has a MW of **Molecular Weight**

34.6 kDa

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 from nanodisc solubilization buffer (20

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

témperature.

Olfactory receptors interact with odorant molecules in the nose, to initiate a neuronal response that triggers the perception of a smell. The olfactory receptor proteins are members of a large family of G-protein-coupled receptors (GPCR) arising from single coding-exon genes.
Olfactory receptors share a 7-transmembrane
domain structure with many neurotransmitter and

hormone receptors and are responsible for the recognition and G protein-mediated transduction of odorant signals. The olfactory receptor gene family is the largest in the genome. The nomenclature assigned to the olfactory receptor

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genes and proteins for this organism is independent of other organisms.

Usage Research use only Conjugate Unconjugated





ELISA assay to evaluate OR3A1-Nanodisc 0.2μg Human OR3A1-Nanodisc per well

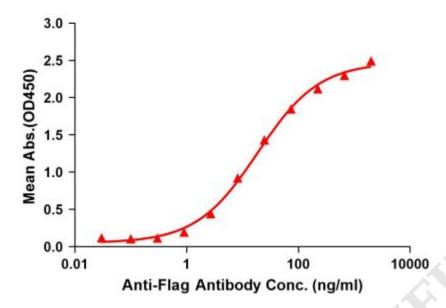


Figure 1. Elisa plates were pre-coated with Flag Tag OR3A1-Nanodisc ($0.2\mu g/per$ well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with OR3A1-Nanodisc is 18.77ng/ml.



Figure 2. WB analysis of Human OR3A1-Nanodisc with anti-Flag monoclonal antibody at 1/5000 dilution, followed by Goat Anti-Rabbit IgG HRP at 1/5000 dilution

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