Cat. No. FLP120481A



PRODUCT INFORMATION

C-Flag&Strep Tag Tag

Target TAAR1

Synonyms TA1; TAR1; TRAR1

Human BRIL-TAAR1-Strep full length protein-**Description**

synthetic nanodisc

Delivery In Stock **Uniprot ID** Q96RJ0 **Expression Host HEK293**

Formulation & Reconstitution

Storage & Shipping

Background

Protein Families Druggable Genome, GPCR, Transmembrane

Protein Pathways Neuroactive ligand-receptor interaction

The human full length BRIL-TAAR1-Strep protein **Molecular Weight**

has a MW of 50.0 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 for specific instructions. Do not use solvents with

Lyophilized from nanodisc solubilization buffer (20

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

témperature.

A G-protein coupled receptor activated by trace amines. The encoded protein responds little or not at all to dopamine, serotonin, epinephrine, or

histamine, but responds well to beta-

phenylethylamine, p-tyramine, octopamine, and tryptamine. While primarily functioning in neurologic systems, there is evidence that this protein is involved in blood cell and immunologic functions as well. The BBM convence was added

functions as well. The BRIL sequence was added to the N-terminal of TAAR1 to enhance receptor stability. BRIL is thermostabilized apocytochrome b562 with mutations M7W, H102I, R106L, PDB ID

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1M6T.

Research use only **Usage**

Conjugate Unconjugated





ELISA assay to evaluate BRIL-TAAR1-Strep-Nanodisc 0.2µg Human BRIL-TAAR1-Strep-Nanodisc per well

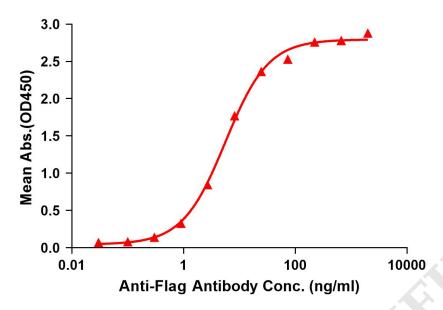


Figure 1. Elisa plates were pre-coated with C-Flag&Strep Tag BRIL-TAAR1-Strep-Nanodisc (0.2 μ g/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with BRIL-TAAR1-Strep-Nanodisc is 5.628ng/ml.

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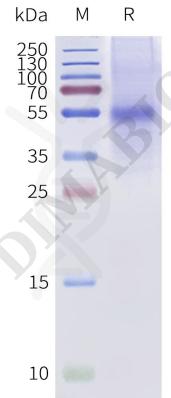


Figure 2. Human BRIL-TAAR1-Strep-Nanodisc, C-Flag&Strep Tag on SDS-PAGE

