

PRODUCT INFORMATION

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| Tag | C-Flag&Strep Tag |
| Target | TAAR1 |
| Synonyms | TA1; TAR1; TRAR1 |
| Description | Human BRIL-TAAR1-Strep full length protein-synthetic nanodisc |
| Delivery | In Stock |
| Uniprot ID | Q96RJ0 |
| Expression Host | HEK293 |
| Protein Families | Druggable Genome, GPCR, Transmembrane |
| Protein Pathways | Neuroactive ligand-receptor interaction |
| Molecular Weight | The human full length BRIL-TAAR1-Strep protein has a MW of 50.0 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. Please see Certificate of Analysis 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. |
| 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. |
| Background | 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 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 1M6T. |
| Usage | Research use only |
| Conjugate | Unconjugated |



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

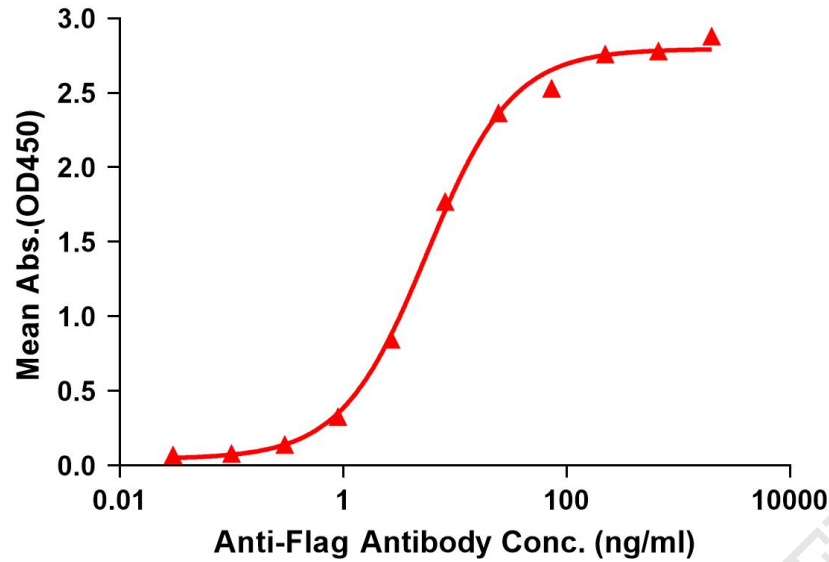


Figure 1. Elisa plates were pre-coated with C-Flag&Strep Tag BRIL-TAAR1-Strep-Nanodisc (0.2µg/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding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

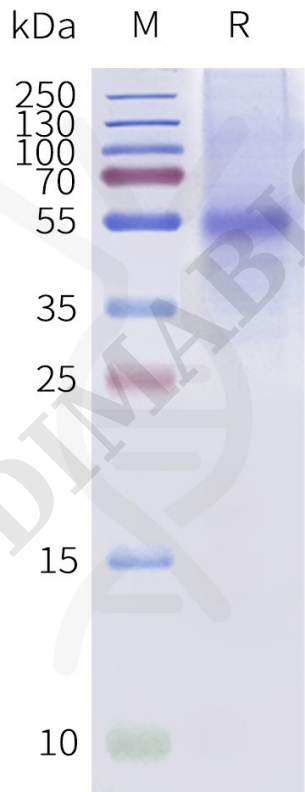


Figure 2. Human BRIL-TAAR1-Strep-Nanodisc, C-Flag&Strep Tag on SDS-PAGE

