PRODUCT INFORMATION

Tag	C-Flag Tag
Expression Host	HEK293
Target	TAS1R2
Synonyms	GPR71; T1R2; TR2
Description	Human TAS1R2 full length protein-synthetic nanodisc
Uniprot ID	Q8TE23
Protein Families	Druggable Genome, Transmembrane
Protein Pathways	Taste transduction
Molecular Weight	The human full length TAS1R2 protein has a MW of 95.2 kDa
Delivery	In Stock
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.
Sterility	Products are supplied non-sterile. For cell culture applications, dilute in appropriate medium and sterile-filter (0.22 µm) prior to use.
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	Putative taste receptor. TAS1R2/TAS1R3 recognizes diverse natural and synthetic sweeteners.
Usage	Research use only
Conjugate	Unconjugated

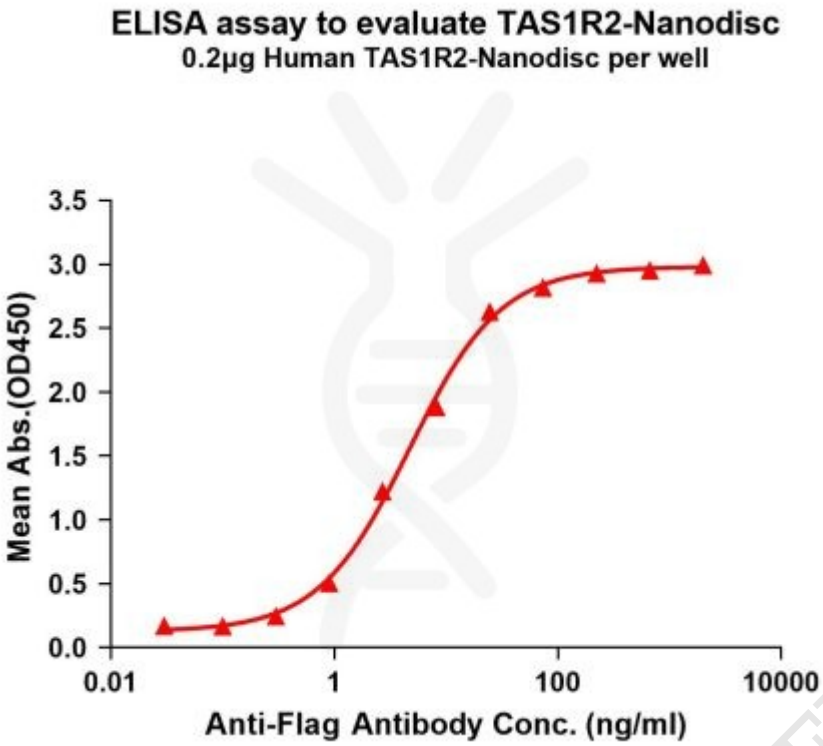

Figure1. Elisa plates were pre-coated with Flag Tag TAS1R2-Nanodisc (0.2μg/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with TAS1R2-Nanodisc is 4.703ng/ml.

Figure2. Human TAS1R2-Nanodisc, Flag Tag on SDS-PAGE