DIMA BIOTECH

PRODUCT INFORMATION

Tag	C-Flag&Strep Tag
Target	GABR1
Synonyms	GABABR1; GABBR1-3; GB1; GPRC3A
Description	Human GABR1-Strep full length protein-synthetic nanodisc
Delivery	In Stock
Uniprot ID	Q9UBS5
Expression Host	HEK293
Protein Families	Druggable Genome, GPCR, Secreted Protein, Transmembrane
Protein Pathways	Neuroactive ligand-receptor interaction
Molecular Weight	The human full length GABR1-Strep protein has a MW of 108.3 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 of reconstitution.
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 receptor for gamma-aminobutyric acid (GABA), which is the main inhibitory neurotransmitter in the mammalian central nervous system. This receptor functions as a heterodimer with GABA(B) receptor 2. Defects in this gene may underlie brain disorders such as schizophrenia and epilepsy. Alternative splicing generates multiple transcript variants, but the full-length nature of some of these variants has not been determined.
Usage	Research use only
Conjugate	Unconjugated

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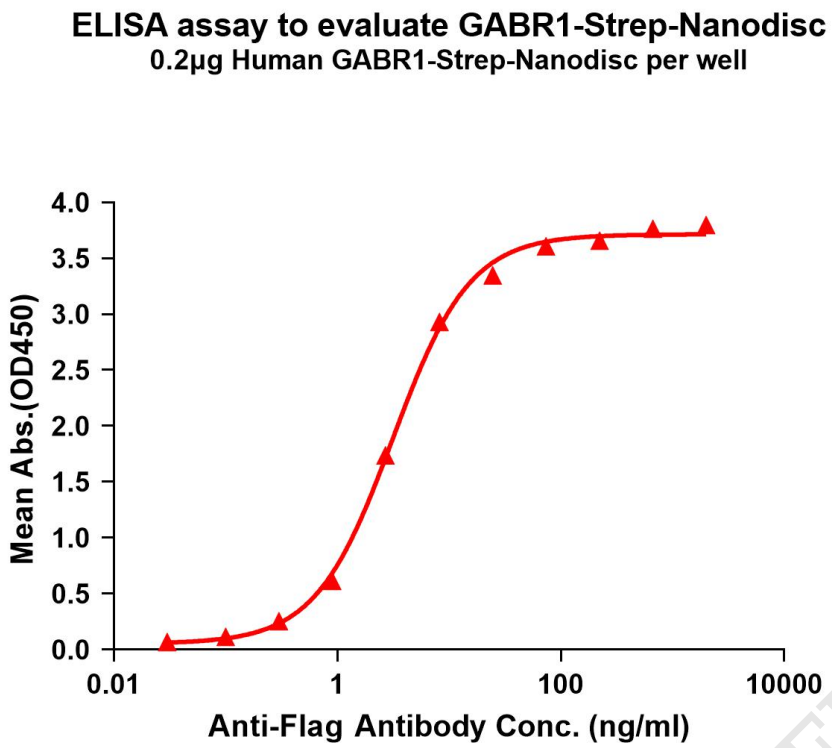

Figure 1. Elisa plates were pre-coated with C-Flag&Strep Tag GABR1-Strep-Nanodisc (0.2μg/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with GABR1-Strep-nanodisc is 3.134ng/ml.

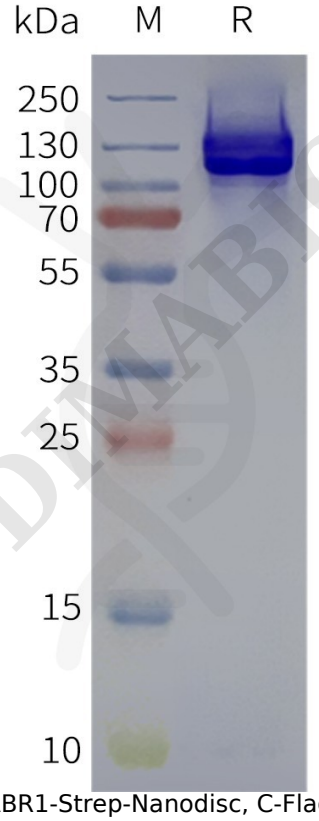

Figure 2. Human GABR1-Strep-Nanodisc, C-Flag&Strep Tag on SDS-PAGE

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