PRODUCT INFORMATION

Tag	C-Flag&Strep Tag
Target	DRD5
Synonyms	DBDR; DRD1B; DRD1L2
Description	Human DRD5-Strep full length protein-synthetic nanodisc
Delivery	In Stock
Uniprot ID	P21918
Expression Host	HEK293
Protein Families	Druggable Genome, GPCR, Transmembrane
Protein Pathways	Calcium signaling pathway, Neuroactive ligand-receptor interaction
Molecular Weight	The human full length DRD5-Strep protein has a MW of 53.0 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
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	The D5 subtype is a G-protein coupled receptor which stimulates adenylyl cyclase. This receptor is expressed in neurons in the limbic regions of the brain. It has a 10-fold higher affinity for dopamine than the D1 subtype. Pseudogenes related to this gene reside on chromosomes 1 and 2.
Usage	Research use only
Conjugate	Unconjugated

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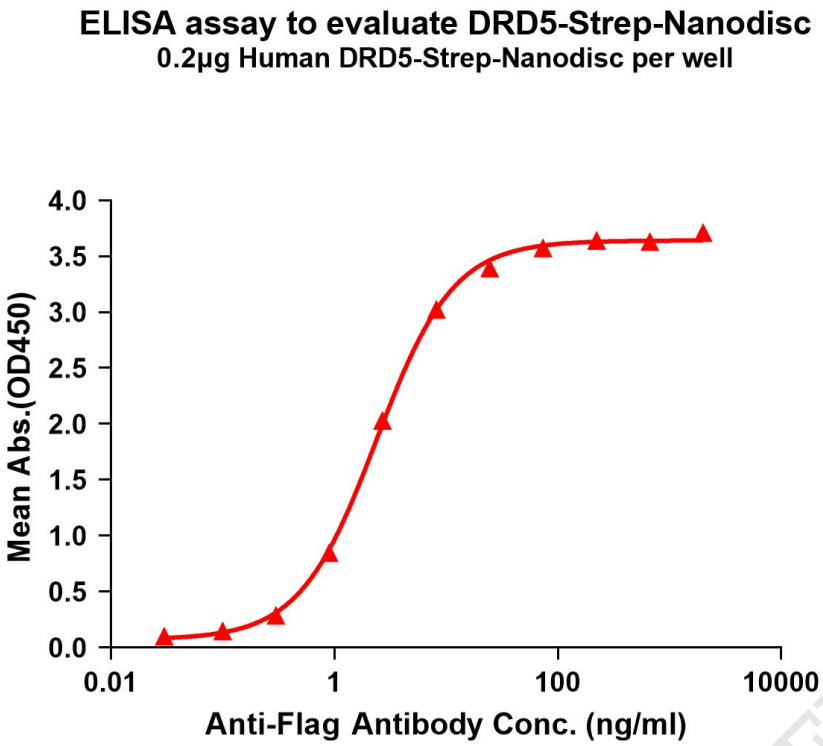

Figure 1. Elisa plates were pre-coated with C-Flag&Strep Tag DRD5-Strep-Nanodisc (0.2μg/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with DRD5-Strep-nanodisc is 2.386ng/ml.

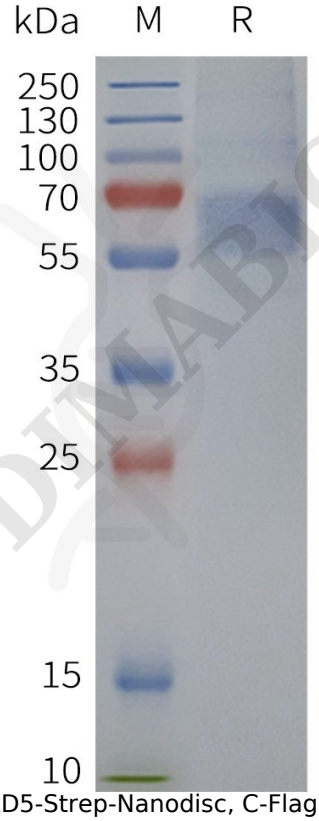

Figure 2. Human DRD5-Strep-Nanodisc, C-Flag&Strep Tag on SDS-PAGE

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