

PRODUCT INFORMATION

Tag	C-Flag Tag
Expression Host	HEK293
Target	DRD2
Synonyms	D2DR; D2R
Description	Human DRD2 full length protein-synthetic nanodisc
Uniprot ID	P14416
Protein Families	Druggable Genome, GPCR, Transmembrane
Protein Pathways	Gap junction, Neuroactive ligand-receptor interaction
Molecular Weight	The human full length DRD2 protein has a MW of 50.6 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	This G-protein coupled receptor inhibits adenylyl cyclase activity. A missense mutation in this gene causes myoclonus dystonia; other mutations have been associated with schizophrenia. Alternative splicing of this gene results in two transcript variants encoding different isoforms. A third variant has been described, but it has not been determined whether this form is normal or due to aberrant splicing.
Usage	Research use only
Conjugate	Unconjugated



ELISA assay to evaluate DRD2-Nanodisc 0.2 μ g Human DRD2-Nanodisc per well

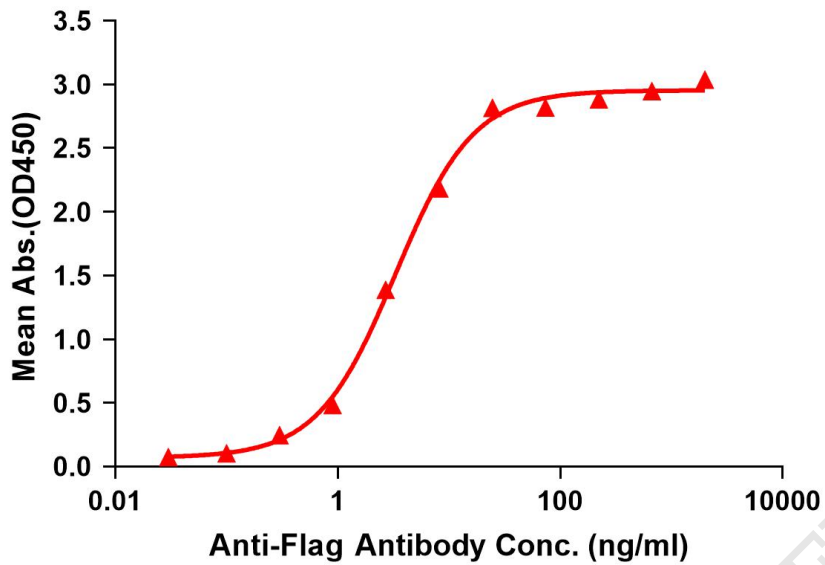


Figure1. Elisa plates were pre-coated with Flag Tag DRD2-Nanodisc (0.2 μ g/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with DRD2-Nanodisc is 3.314ng/ml.

kDa M R

250
130
100
70
55
35
25
15
10



Figure2. WB analysis of Human DRD2-Nanodisc with anti-Flag monoclonal antibody at 1/5000 dilution, followed by Goat Anti-Rabbit IgG HRP at 1/5000 dilution

