

PRODUCT INFORMATION

Tag	C-Flag&Strep Tag
Target	P2RX3
Synonyms	P2X3
Description	Human P2RX3-Strep full length protein-synthetic nanodisc
Delivery	In Stock
Uniprot ID	P56373
Expression Host	HEK293
Protein Families	Druggable Genome, Ion Channels: ATP Receptors, Transmembrane
Protein Pathways	Calcium signaling pathway, Neuroactive ligand-receptor interaction
Molecular Weight	The human full length P2RX3-Strep protein has a MW of 44.3 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. 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 member of the P2X purinergic receptor (purinoceptor) gene family which includes seven members (P2RX1 – P2RX7). P2X purinoceptors are a family of cation-permeable, ligand-gated ion channels that open in response to the binding of extracellular adenosine 5'-triphosphate (ATP). The encoded protein is a subunit of the trimeric P2X3 receptor ion channel which is expressed by sensory or autonomic neurons. A deficiency of the orthologous protein in mice is associated with reduced pain-related behavior and urinary bladder hyporeflexia.
Usage	Research use only
Conjugate	Unconjugated



**ELISA assay to evaluate P2RX3-Strep-Nanodisc**  
0.2µg Human P2RX3-Strep-Nanodisc per well

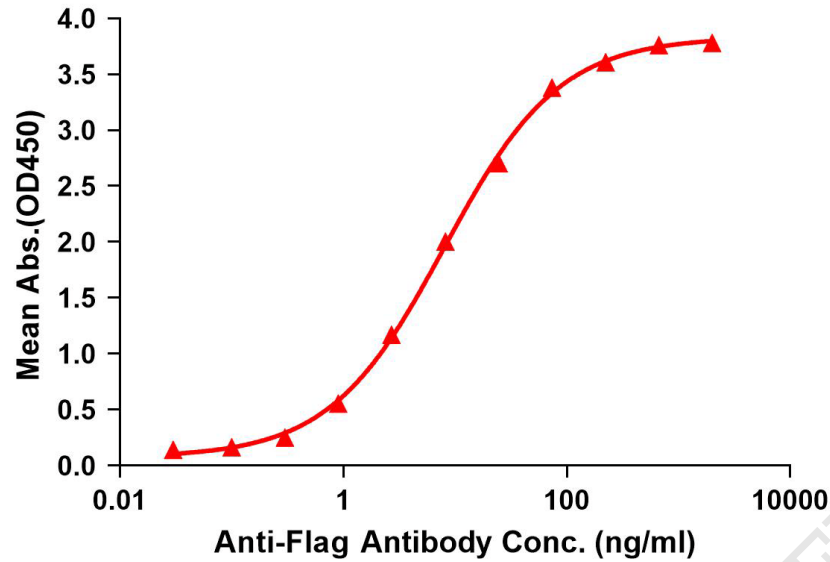


Figure 1. Elisa plates were pre-coated with C-Flag&Strep Tag P2RX3-Strep-Nanodisc (0.2µg/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with P2RX3-Strep-nanodisc is 8.046ng/ml.



Figure 2. Human P2RX3-Strep-Nanodisc, C-Flag&Strep Tag on SDS-PAGE

