

PRODUCT INFORMATION

Tag	C-Flag Tag
Expression Host	HEK293
Target	P2RX7
Synonyms	P2X7
Description	Human P2RX7 full length protein-synthetic nanodisc
Uniprot ID	Q99572
Protein Families	Druggable Genome, Ion Channels: ATP Receptors, Transmembrane
Protein Pathways	Calcium signaling pathway, Neuroactive ligand-receptor interaction
Molecular Weight	The human full length P2RX7 protein has a MW of 68.4 kDa
Delivery	3-4 weeks
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	The product of this gene belongs to the family of purinoceptors for ATP. This receptor functions as a ligand-gated ion channel and is responsible for ATP-dependent lysis of macrophages through the formation of membrane pores permeable to large molecules. Activation of this nuclear receptor by ATP in the cytoplasm may be a mechanism by which cellular activity can be coupled to changes in gene expression. Multiple alternatively spliced variants have been identified, most of which fit nonsense-mediated decay (NMD) criteria. [provided by RefSeq, Jul 2010]
Usage	Research use only
Conjugate	Unconjugated



ELISA assay to evaluate P2RX7-Nanodisc 0.2 μ g Human P2RX7-Nanodisc per well

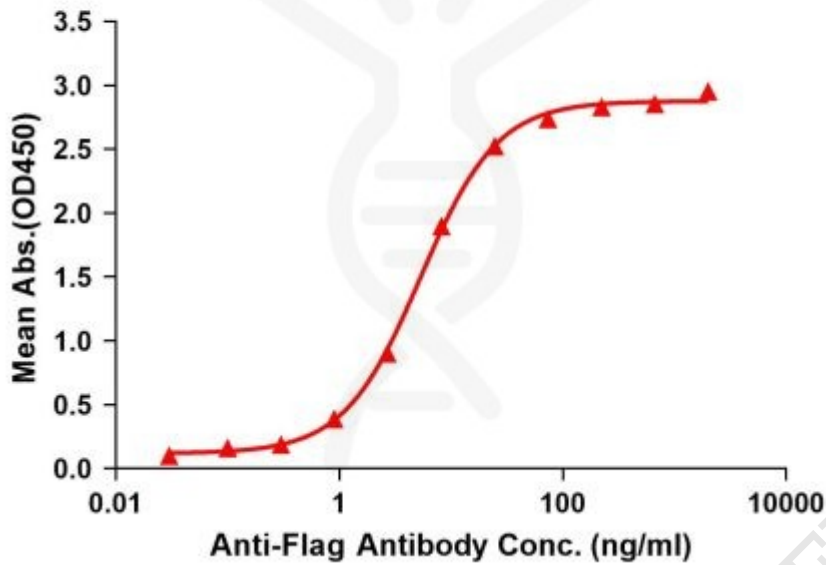


Figure1. Elisa plates were pre-coated with Flag Tag P2RX7-Nanodisc (0.2 μ g/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with P2RX7-Nanodisc is 5.349ng/ml.



Figure2. Human P2RX7-Nanodisc, Flag Tag on SDS-PAGE

