

HUMAN P2RX7 PROTEIN, HFC TAG**Cat.#:** 11265**Product Name:** Human P2RX7 Protein**Size:** 10 µg, 50 µg and 100 µg**Synonyms:** P2X7**Target:** P2RX7**UNIPROT ID:** Q99572**Description:** Recombinant human P2RX7 protein with N-terminal human Fc tag**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]**Species/Host:** HEK293**Molecular Weight:** The protein has a predicted molecular mass of 59.2 kDa after removal of the signal peptide. The apparent molecular mass of hFc-P2RX7 is approximately 55–70 kDa due to glycosylation.**Molecular Characterization:** hFc(Glu99–Ala330) P2RX7(Ser47–Val334)**Purity:** The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.**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.**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.



Figure 1. Human P2RX7 Protein, hFc Tag on SDS-PAGE under reducing condition.