

## Product datasheet for **TP762442**

### **P2RX7 (NM\_002562) Human Recombinant Protein**

#### **Product data:**

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Purified recombinant protein of Human purinergic receptor P2X, ligand-gated ion channel, 7 (P2RX7), transcript variant 1, Ser47-Val334, with N-terminal His tag, expressed in E.coli, 50ug
<b>Species:</b>	Human
<b>Expression Host:</b>	E. coli
<b>Expression cDNA Clone or AA Sequence:</b>	A DNA sequence encoding the region(Ser47-Val334) of P2RX7
<b>Tag:</b>	N-His
<b>Predicted MW:</b>	33.1 kDa
<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	50 mM Tris-HCl, pH 8.0, 8 M urea
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C after receiving vials.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_002553</a>
<b>Locus ID:</b>	5027
<b>UniProt ID:</b>	<a href="#">Q99572</a>
<b>RefSeq Size:</b>	3155
<b>Cytogenetics:</b>	12q24.31
<b>RefSeq ORF:</b>	1785
<b>Synonyms:</b>	P2X7



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**Summary:**

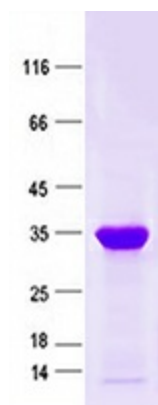
The product of this gene belongs to the family of purinoceptors for ATP. This receptor functions as a ligand-gated ion channel and is responsible for ATP-dependent lysis of macrophages through the formation of membrane pores permeable to large molecules. Activation of this nuclear receptor by ATP in 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]

**Protein Families:**

Druggable Genome, Ion Channels: ATP Receptors, Transmembrane

**Protein Pathways:**

Calcium signaling pathway, Neuroactive ligand-receptor interaction

**Product images:**

Purified recombinant protein P2RX7 was analyzed by SDS-PAGE gel and Coomassie Blue Staining.