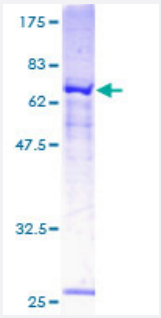
Full-Length

P2RX1 (Human) Recombinant Protein (P01)

Catalog # H00005023-P01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human P2RX1 full-length ORF (AAH44657, 1 a.a. - 399 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MARRFQEELAAFLFEYDTPRMVLVRNKKVGVIFRLIQLVVLVYVIGWVFLYEKGYQTSSGLISSVSV KLKGLAVTQLPGLGPQVWDVADYVFPAQGDNSFVVMTNFIVTPKQTQGYCAEHPEGGICKEDSG CTPGKAKRKAQGIRTGKCVAFNDTVKTCEIFGWCPVEVDDDIPRPALLREAENFTLFIKNSISFPRF KVNRRNLVEEVNAAHMKTCLFHKTLHPLCPVFQLGYVVQESGQNFSTLAEKGGVVGITIDWHCDL DWHVRHCRPIYEFHGLYEEKNLSPGFNFRFARHFVENGTNYRHLFKVFGIRFDILVDGKAGKFDIIP TMTTIGSGIGIFGVATVLCDLLLLHILPKRHYYKQKKFKYAEDMGPGAAERDLAATSSTLGLQENMR TS
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	69.63
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — P2RX1

Entrez GeneID	5023
GeneBank Accession#	BC044657
Protein Accession#	AAH44657
Gene Name	P2RX1
Gene Alias	P2X1
Gene Description	purinergic receptor P2X, ligand-gated ion channel, 1
Omim ID	600845
Gene Ontology	Hyperlink
Gene Summary	The product of this gene belongs to the family of purinoceptors for ATP. This receptor functions as a ligand-gated ion channel with relatively high calcium permeability. Binding to ATP mediates synaptic transmission between neurons and from neurons to smooth muscle, being responsible, for example, for sympathetic vasoconstriction in small arteries, arterioles and vas deferens. Mouse studies suggest that this receptor is essential for normal male reproductive function. It is possible that the development of selective antagonists for this receptor may provide an effective non-hormonal male contraceptive pill. [provided by RefSeq
Other Designations	ATP receptor|P2X purinoceptor 1|P2X receptor, subunit 1|P2X1 receptor|purinergic receptor P2X1

Pathway

- Calcium signaling pathway
- Neuroactive ligand-receptor interaction