



Human P2RX1 peptide (DAG-P0949)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	The protein encoded by this gene belongs to the P2X family of G-protein-coupled receptors. These proteins can form homo-and heterotimers and function as ATP-gated ion channels and mediate rapid and selective permeability to cations. This protein is primarily localized to smooth muscle where binds ATP and mediates synaptic transmission between neurons and from neurons to smooth muscle and may being responsible for sympathetic vasoconstriction in small arteries, arterioles and vas deferens. Mouse studies suggest that this receptor is essential for normal male reproductive function. This protein may also be involved in promoting apoptosis. [provided by RefSeq, Jun 2013]
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the P2X receptor family.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	P2RX1 purinergic receptor P2X, ligand-gated ion channel, 1 [Homo sapiens (human)]
Official Symbol	P2RX1
Synonyms	P2RX1; purinergic receptor P2X, ligand-gated ion channel, 1; P2X1; P2X purinoceptor 1; ATP receptor; P2X1 receptor; P2X receptor, subunit 1; purinergic receptor P2X1;

Entrez Gene ID	5023
mRNA Refseq	NM_002558.3
Protein Refseq	NP_002549.1
UniProt ID	P51575
Chromosome Location	17p13.3
Pathway	Calcium signaling pathway, organism-specific biosystem; Calcium signaling pathway, conserved biosystem; Elevation of cytosolic Ca ²⁺ levels, organism-specific biosystem; Hemostasis, organism-specific biosystem; Neuroactive ligand-receptor interaction, organism-specific biosystem; Neuroactive ligand-receptor interaction, conserved biosystem; Platelet calcium homeostasis, organism-specific biosystem; Platelet homeostasis, organism-specific biosystem;
Function	ATP binding; calcium channel activity; cation channel activity; drug binding; extracellular ATP-gated cation channel activity; purinergic nucleotide receptor activity; zinc ion binding;