

## Product datasheet for PH318626

### P2X3 (P2RX3) (NM\_002559) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	P2RX3 MS Standard C13 and N15-labeled recombinant protein (NP_002550)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC218626
Predicted MW:	44.1 kDa
Protein Sequence:	>RC218626 representing NM_002559 Red=Cloning site Green=Tags(s)

MNCISDFFTYETTKSVVVKSWTIGIINRVVQLLIISYFVGWVFLHEKAYQVRDTAIESSVTKVKGSGLY  
ANRVMDSYDVTTPPGTQSVFVIIITKMIVTENQMQGFCPESEEKYRCVSDSQCGPERLPGGGILTGRVNY  
SSVLRTEIQGWCPTEVDTVETPIMMEAEFTIFIKNSIRFPLFNFEKGNLLPNLTARDMKTGRFHPDKD  
PFCPILRVGDVVKFAGQDFAKLARTGGVLGIKIGWVCDLKAWDQCIPKYSFTRLDVSEKSSVSPGYNF  
RFAKYYKMENGSEYRLLKAFGIRFDVLYYGNAGKFNIPTIISSVAFTSVGVGTVLCDIILLNFLKGA  
DQYKAKKFEEVNETTLKIAALNTPVYPSDQTTVEKQSTDSGAFSIGH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_002550</u>
RefSeq Size:	1349
RefSeq ORF:	1191
Synonyms:	P2X3
Locus ID:	5024



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UniProt ID: [P56373](#)

Cytogenetics: 11q12.1

**Summary:** This gene encodes a member of the P2X purinergic receptor (purinoceptor) gene family which includes seven members (P2RX1 - P2RX7). P2X purinoceptors are a family of cation-permeable, ligand-gated ion channels that open in response to the binding of extracellular adenosine 5'-triphosphate (ATP). The encoded protein is a subunit of the trimeric P2X3 receptor ion channel which is expressed by sensory or autonomic neurons. A deficiency of the orthologous protein in mice is associated with reduced pain-related behavior and urinary bladder hyporeflexia. [provided by RefSeq, Aug 2017]

**Protein Families:** Druggable Genome, Ion Channels: ATP Receptors, Transmembrane

**Protein Pathways:** Calcium signaling pathway, Neuroactive ligand-receptor interaction

### Product images:



Coomassie blue staining of purified P2RX3 protein (Cat# [TP318626]). The protein was produced from HEK293T cells transfected with P2RX3 cDNA clone (Cat# [RC218626]) using MegaTran 2.0 (Cat# [TT210002]).