Recombinant P2RX3 protein (His tag)

Catalog Number	544723
Synonyms	P2X3; ATP receptor; Purinergic receptor
Species	Human
Expression System	E. coli
Accession	P56373
Molecular Weight	Predictes a molecular mass of 33.01 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 33 kDa band.

Product Information

Sequence Region	44-322
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 44-322 aa (P56373) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Introducing the recombinant human P2X purinoceptor 3 (P2X3) fragment (residues 44-322), a 279-amino acid protein designed for structural and biochemical studies. This soluble, stable fragment retains key functional characteristics of the ATP-gated ion channel, offering researchers a reliable tool to investigate sensory signaling pathways and nociceptive mechanisms. P2X purinoceptor 3 (P2X3) is an extracellular ATP-activated non-selective cation channel that plays a critical role in sensory neurons, where its activation is essential for gustatory responses, nociceptive signaling, visceral reflexes, and sensory hypersensitization. The full-length protein localizes to the cell membrane as a multi-pass membrane protein, particularly in neuronal cell bodies of sensory neurons. This recombinant fragment represents a computationally selected stable and soluble unit that maintains relevance to the protein's native function while being optimized for experimental applications.