Recombinant P2RX6 protein (His tag)

Catalog Number	546464
Synonyms	P2X6; ATP receptor; P2XM; Purinergic receptor; Purinergic receptor P2X-like 1
Species	Human
Expression System	E. coli
Accession	O15547
Molecular Weight	Predictes a molecular mass of 32.39 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 32 kDa band.

Product Information

Sequence Region	61-333
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, 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 61-333 aa (O15547) 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	Recombinant Human P2X purinoceptor 6 (P2X6) fragment (amino acids 61-333) is a high-purity, soluble protein designed for structural and functional studies. This fragment represents a stable region of the ATP receptor, optimized for biochemical and biophysical analyses to support research in purinergic signaling and receptor modulation. P2X purinoceptor 6 (P2X6), encoded by the P2RX6 gene in humans, functions as a modulatory subunit rather than forming functional homotrimeric channels. It requires co-expression with P2RX4 or P2RX2 subunits for trafficking to the plasma membrane, where it contributes to heterotrimeric ATP-gated receptor complexes. Additionally, P2X6 localizes to the endoplasmic reticulum and nucleus, with evidence suggesting a nuclear role in regulating post-transcriptional modifications in neurons. This recombinant fragment (61-333) excludes transmembrane regions to enhance solubility, enabling detailed investigations into its structural properties and interactions.