Recombinant 5HT3A protein (His tag)

Catalog Number	537751
Synonyms	5-HT3-A; 5-HT3A; 5-hydroxytryptamine receptor 3; 5-HT-3; 5-HT3R; Serotonin receptor 3A; Serotonin-gated ion channel receptor
Species	Human
Expression System	E. coli
Accession	P46098
Molecular Weight	Predictes a molecular mass of 27.78 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 28 kDa band.

Product Information

Sequence Region	24-241
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 24-241 aa (P46098) 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 5-Hydroxytryptamine Receptor 3A (5-HT3-A) Fragment (residues 24-241) is a high-purity, soluble protein fragment engineered for structural and biochemical studies. This 218-amino acid fragment retains key features of the serotonin-activated cation channel receptor, providing researchers with a stable tool for investigating serotonin signaling mechanisms. The full-length 5-hydroxytryptamine receptor 3A (5-HT3-A) forms serotonin-activated cation-selective channel complexes that mediate fast, depolarizing responses in neurons. This receptor functions as a multi-pass membrane protein localized to both postsynaptic and general cell membranes, where it plays a crucial role in serotonin-gated ion channel activity. The receptor's ability to form cation-selective channels upon serotonin activation makes it essential for understanding neuronal signaling pathways and neurotransmitter function in the central nervous system.