Recombinant 5HT3C protein (His tag)

Catalog Number	538619
Synonyms	5-HT3-C; 5-HT3C; Serotonin receptor 3C
Species	Human
Expression System	E. coli
Accession	Q8WXA8
Molecular Weight	Predictes a molecular mass of 27.08 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 27 kDa band.

Product Information

Sequence Region	28-248
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, 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 28-248 aa (Q8WXA8) 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-HT3C Receptor Fragment (28-248) is a high-purity, soluble protein designed for structural and biochemical studies. This fragment represents a stable portion of the serotonin receptor 3C, enabling researchers to investigate cation channel mechanisms in neuronal signaling with enhanced experimental applicability. The full-length 5-hydroxytryptamine receptor 3C (5-HT3C) forms serotonin-activated cation-selective channels that mediate fast depolarizing responses in neurons, playing a critical role in neurotransmission. Located primarily in the postsynaptic cell membrane as a multi-pass membrane protein, it requires co-assembly with HTR3A for proper trafficking beyond the endoplasmic reticulum. This receptor's function in facilitating rapid neuronal excitation underscores its importance in understanding serotonin-mediated signaling pathways and related neurological processes.