# Recombinant 5HT3E protein (His tag)

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| **Catalog Number** | 544005 |
| **Synonyms** | 5-HT3-E; 5-HT3E; Serotonin receptor 3E |
| **Species** | Human |
| **Expression System** | E. coli |
| **Accession** | A5X5Y0 |
| **Molecular Weight** | Predictes a molecular mass of 27.15 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 27 kDa band. |

## Product Information

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| **Sequence Region** | 26-248 |
| **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 26-248 aa (A5X5Y0) were fused with 6His tag. |

## Storage & Handling

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| **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.<br>Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise. |

## Description

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| **Description** | Recombinant Human 5-HT3E Receptor Fragment (26-248) is a high-quality protein product designed for advanced neuroscience and pharmacology research. This fragment represents a stable and soluble unit of the serotonin-activated cation channel, optimized for structural and biochemical studies.<br>The full-length 5-hydroxytryptamine receptor 3E (5-HT3E) forms serotonin-activated cation-selective channels that mediate fast, depolarizing responses in neurons, playing a crucial role in neuronal signaling. This receptor is localized to postsynaptic and cell membranes as a multi-pass membrane protein. Notably, the 5-HT3E subunit requires complex formation with HTR3A for proper trafficking from the endoplasmic reticulum to the cell membrane, highlighting its importance in functional receptor assembly and neuronal communication. |