# Recombinant 5HT3B protein (His tag)

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| **Catalog Number** | 539619 |
| **Synonyms** | 5-HT3-B; 5-HT3B; Serotonin receptor 3B |
| **Species** | Human |
| **Expression System** | E. coli |
| **Accession** | O95264 |
| **Molecular Weight** | Predictes a molecular mass of 26.84 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 28 kDa band. |

## Product Information

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| **Sequence Region** | 22-238 |
| **Form** | Lyophilized powder |
| **Formulation** | Lyophilized from sterile PBS, pH 7.4 |
| **Purity** | >88%, 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 22-238 aa (O95264) 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** | This recombinant protein product features a stable, soluble fragment (residues 22-238) of the human 5-hydroxytryptamine receptor 3B (5-HT3B), a key serotonin-activated cation channel subunit. This carefully selected fragment is optimized for structural studies and biochemical characterization, providing researchers with a valuable tool for investigating serotonin receptor function and signaling mechanisms. The full-length 5-hydroxytryptamine receptor 3B (5-HT3B) forms serotonin-activated cation-selective channel complexes that mediate fast, depolarizing responses in neurons. As a multi-pass membrane protein, it localizes to both postsynaptic and general cell membranes. Notably, HTR3B requires complex formation with HTR3A for proper cellular localization, as it is retained within the endoplasmic reticulum when expressed alone. This receptor plays a crucial role in serotonin-mediated neurotransmission, making it an important target for neurological and psychiatric research. |