

**PRODUCT INFORMATION**

<b>Target</b>	HTR6
<b>Synonyms</b>	5-HT6; 5-HT6R
<b>Description</b>	Recombinant human HTR6 Protein with C-terminal human Fc tag
<b>Delivery</b>	In Stock
<b>Uniprot ID</b>	P50406
<b>Expression Host</b>	HEK293
<b>Tag</b>	C-Human Fc tag
<b>Molecular Characterization</b>	HTR6(Met1-Gly27) hFc(Glu99-Ala330)
<b>Molecular Weight</b>	The protein has a predicted molecular mass of 28.6 kDa after removal of the signal peptide.
<b>Purity</b>	The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
<b>Formulation &amp; Reconstitution</b>	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.
<b>Storage&amp;Shipping</b>	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
<b>Sterility</b>	Products are supplied non-sterile. For cell culture applications, dilute in appropriate medium and sterile-filter (0.22 µm) prior to use.
<b>Background</b>	HTR6 encodes the 5-hydroxytryptamine (serotonin) receptor 6, a G-protein coupled receptor (GPCR) that primarily couples to Gs proteins, leading to activation of adenylyl cyclase and elevation of intracellular cAMP levels. It is mainly expressed in the central nervous system, particularly in the striatum, cortex, hippocampus, and olfactory tubercle, where it modulates cholinergic, dopaminergic, and glutamatergic neurotransmission. HTR6 plays important roles in cognition, learning, memory, and mood regulation. Dysregulation of HTR6 signaling has been implicated in Alzheimer's disease, schizophrenia, and cognitive impairment, making it a potential therapeutic target for neuropsychiatric and neurodegenerative disorders.
<b>Usage</b>	Research use only
<b>Conjugate</b>	Unconjugated





Figure 1. Human HTR6 Protein, hFc Tag on SDS-PAGE under reducing condition.

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