

PRODUCT INFORMATION

Target	HTR2A
Synonyms	5-HT ₂ 5-HT _{2A} Serotonin receptor 2A HTR2A HTR2
Description	Recombinant human HTR2A Protein with C-terminal human Fc tag
Delivery	In Stock
Uniprot ID	P28223
Expression Host	HEK293
Tag	C-Human Fc tag
Molecular Characterization	HTR2A(Met1-Trp76) hFc(Glu99-Ala330)
Molecular Weight	The protein has a predicted molecular mass of 34.7 kDa after removal of the signal peptide.
Purity	The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
Formulation & Reconstitution	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.
Storage&Shipping	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.
Background	HTR2A encodes the 5-hydroxytryptamine (serotonin) receptor 2A, a G-protein coupled receptor (GPCR) that mediates many of serotonin's effects in the central nervous system and peripheral tissues. It primarily couples to Gq/11 proteins, activating the phospholipase C (PLC)-IP ₃ -Ca ²⁺ signaling pathway, leading to neuronal excitation and modulation of neurotransmitter release. HTR2A is highly expressed in the cerebral cortex, hippocampus, and platelets, and regulates mood, perception, sleep, and cognition. Dysregulation or polymorphisms of HTR2A are associated with psychiatric disorders such as schizophrenia, depression, and anxiety, and it is a pharmacological target of antipsychotics, antidepressants, and hallucinogens (e.g., LSD, psilocybin).
Usage	Research use only
Conjugate	Unconjugated





Figure 1. Human HTR2A Protein, hFc Tag on SDS-PAGE under reducing condition.

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