

PRODUCT INFORMATION

Target HTR2A

5-HT-2

| 5-HT-2

| Serotonin receptor **Synonyms**

2A□HTŘ2A□HTRŽ

Recombinant human HTR2A Protein with C-**Description**

terminal human Fc tag

Delivery In Stock P28223 **Uniprot ID Expression Host** HFK293

Tag C-Human Fc tag

Molecular

Purity

Background

HTR2A(Met1-Trp76) hFc(Glu99-Ala330) Characterization

The protein has a predicted molecular mass of **Molecular Weight** 34.7 kDa after removal of the signal peptide.

The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue

staining.

Lyophilized from sterile PBS, pH 7.4. Normally 5 % Formulation & - 8% trehalose is added as protectants before Reconstitution lyophilization. Please see Certificate of Analysis

for specific instructions of reconstitution. 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

Storage & Shipping at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient

temperature.

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)-IP₃-Ca²⁺ 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,

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psilocybin).

Usage Research use only Conjugate Unconjugated





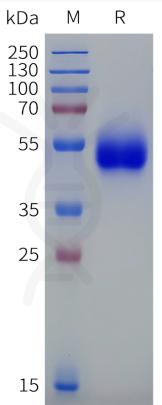


Figure 1. Human HTR2A Protein, hFc Tag on SDS-PAGE under reducing condition.



