PRODUCT INFORMATION

Target	HTR1B
Synonyms	5-HT1B, 5-HT1BR, Serotonin receptor 1B, 5-hydroxytryptamine receptor 1B
Description	Recombinant human HTR1B Protein with C-terminal human Fc tag
Delivery	In Stock
Uniprot ID	P28222
Expression Host	HEK293
Tag	C-Human Fc tag
Molecular Characterization	HTR1B(Met1-Leu46) hFc(Glu99-Ala330)
Molecular Weight	The protein has a predicted molecular mass of 31.0 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.
Sterility	Products are supplied non-sterile. For cell culture applications, dilute in appropriate medium and sterile-filter (0.22 μm) prior to use.
Background	HTR1B (5-HT1B / Serotonin receptor 1B) is a G-protein coupled receptor (GPCR) primarily expressed in the central nervous system, including the basal ganglia, cortex, and hippocampus. It couples to Gi/o proteins, inhibiting adenylyl cyclase and reducing intracellular cAMP, while modulating MAPK signaling. HTR1B regulates neurotransmitter release, mood, aggression, and vascular tone. Dysregulation is linked to migraine, depression, anxiety, and psychiatric disorders, making HTR1B a relevant therapeutic target in neuropsychiatric and vascular conditions.
Usage	Research use only
Conjugate	Unconjugated

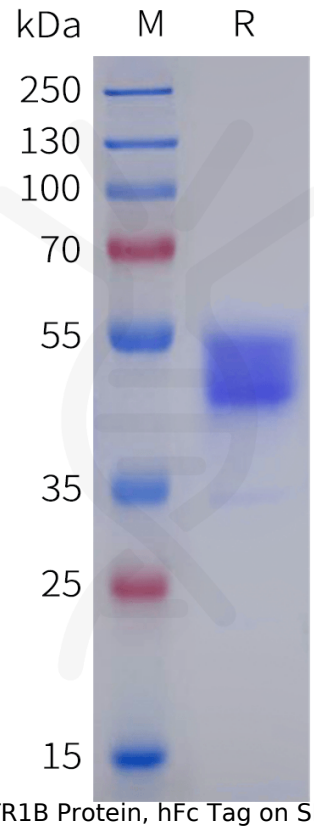

Figure 1. Human HTR1B Protein, hFc Tag on SDS-PAGE under reducing condition.