

HTR1B Protein, Human, Recombinant (His)

General Information

Synonyms:	5-hydroxytryptamine receptor 1B;5-HT-1B;HTR1DB;Serotonin receptor 1B;Serotonin 1D beta receptor (5-HT-1D-beta);S12;HTR1B;5-HT1B
Protein Construction:	1-390 aa
Species:	Human
Expression Host:	E. coli
Accession:	P28222
Molecular Weight:	45.1 kDa (predicted)
AA Sequence:	<p>MEEPGAQCAPPPPAGSETWVPQANLSSAPSQNCsAKDYIQDSISLPWKVLLVMLLALITLATTLSNAFVIAT VYRTRKLHTPANYLIASLAVTDLLVSILVMPISTMYTVTGRWTLGQVVCDFWLSSDITCCTASILHLCVIALDRY WAITDAVEYSAKRTPKRAAVMIALVWVFSISLPPFFWRQAKAEEEVSECVVNTDHILYTVYSTVGAFYFPTLL LIALYGRIYVEARSILKQTPNRTGKRLTRAQLITDSPGSTSSVTSINSRVPDVPSESGSPVYVNQVKVRVSDALL EKKKLMAARERKATKTLGILGAFIVCWLPPFIISLVMPICKDACWFHLAIFDFFTWLGYLNSLINPIIYTM SNEDF KQAFHKLIRFKCTS</p>

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

G-protein coupled receptor for 5-hydroxytryptamine (serotonin). Also functions as a receptor for ergot alkaloid derivatives, various anxiolytic and antidepressant drugs and other psychoactive substances, such as lysergic acid diethylamide (LSD). Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of down-stream effectors, such as adenylate cyclase. Signaling inhibits adenylate cyclase activity. Arrestin family members inhibit signaling via G proteins and mediate activation of alternative signaling pathways. Regulates the release of 5-hydroxytryptamine, dopamine and acetylcholine in the brain, and thereby affects neural activity, nociceptive processing, pain perception, mood and behavior. Besides, plays a role in vasoconstriction of cerebral arteries.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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