

5HT1B Protein, Human (Cell-Free, His)

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| Cat. No.: | HY-P701628 |
| Synonyms: | HTR1B; 5-hydroxytryptamine receptor 1B; 5-HT-1B; 5-HT1B; S12; Serotonin 1D beta receptor; 5-HT-1D-beta; Serotonin receptor 1B |
| Species: | Human |
| Source: | E. coli Cell-free |
| Accession: | P28222 (M1-S390) |
| Gene ID: | 3351 |
| Molecular Weight: | |

PROPERTIES

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| Appearance | Solution. |
| Endotoxin Level | <1 EU/μg, determined by LAL method. |
| Reconstitution | N/A. |
| Storage & Stability | Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles. |
| Shipping | Shipping with dry ice. |

DESCRIPTION

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| Background | <p>The 5HT1B protein functions as a G-protein coupled receptor for 5-hydroxytryptamine (serotonin) and serves as a receptor for ergot alkaloid derivatives, various anxiolytic and antidepressant drugs, and psychoactive substances like lysergic acid diethylamide (LSD). Upon ligand binding, 5HT1B undergoes a conformational change, initiating signaling through guanine nucleotide-binding proteins (G proteins) and modulating downstream effectors, such as adenylate cyclase, ultimately leading to the inhibition of adenylate cyclase activity. Members of the arrestin family play a role in inhibiting signaling via G proteins and activating alternative signaling pathways. This regulatory mechanism extends to the release of 5-hydroxytryptamine, dopamine, and acetylcholine in the brain, influencing neural activity, nociceptive processing, pain perception, mood, and behavior. Additionally, 5HT1B contributes to vasoconstriction in cerebral arteries, forming homodimers and heterodimers with HTR1D.</p> |
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Caution: Product has not been fully validated for medical applications. For research use only.

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