

Datasheet for ABIN7551886

5HT1B Receptor Protein (AA 1-390) (His tag)



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Overview

Quantity:	1 mg
Target:	5HT1B Receptor (HTR1B)
Protein Characteristics:	AA 1-390
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This 5HT1B Receptor protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat HTR1B Protein expressed in mammalian cells.
Sequence:	<p>MEEPGAQCAP PPPAGSETWV PQANLSSAPS QNCSAKDYIY QDSISLPWKV LLVMLLALIT</p> <p>LATTLNFAV IATVYRTRKL HTPANYLIAS LAVTDLLVSI LVMPISTMYT VTGRWTLGQV</p> <p>VCDFWLSSDI TCCTASILHL CVIALDRYWA ITDAVEYSAK RTPKRAAVMI ALVWVFSISI</p> <p>SLPPFFWRQA KAEEEVSECV VNTDHILYTV YSTVGAFYFP TLLIALYGR IYVEARSRL</p> <p>KQTPNRTGKR LTRAQLITDS PGSTSSVTSI NSRVPDVPSE SGSPVYVNQV KVRVSDALLE</p> <p>KKKLMAARER KATKTLGIL GAFIVCWLPF FIISLVMPIC KDACWFHLAI FDFFTWLGYL</p> <p>NSLINPIYT MSNEDFKQAF HKLIRFKCTS Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</p>
Characteristics:	Key Benefits:

Product Details

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
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Grade:	custom-made
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Target Details

Target:	5HT1B Receptor (HTR1B)
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Alternative Name:	HTR1B (HTR1B Products)
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Background:	<p>5-hydroxytryptamine receptor 1B (5-HT-1B) (5-HT1B) (S12) (Serotonin 1D beta receptor) (5-HT-1D-beta) (Serotonin receptor 1B),FUNCTION: 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.</p> <p>{ECO:0000269 PubMed:10452531, ECO:0000269 PubMed:1315531, ECO:0000269 PubMed:1328844, ECO:0000269 PubMed:1348246, ECO:0000269 PubMed:1351684, ECO:0000269 PubMed:1559993,</p>
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Target Details

ECO:0000269|PubMed:1565658, ECO:0000269|PubMed:15853772,
ECO:0000269|PubMed:1610347, ECO:0000269|PubMed:23519210,
ECO:0000269|PubMed:23519215, ECO:0000269|PubMed:8218242}.

Molecular Weight: 43.6 kDa

UniProt: [P28222](#)

Pathways: [JAK-STAT Signaling](#), [cAMP Metabolic Process](#), [Regulation of G-Protein Coupled Receptor Protein Signaling](#), [Feeding Behaviour](#), [S100 Proteins](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months