

Datasheet for ABIN7551742

Serotonin Receptor 1A Protein (HTR1A) (AA 1-422) (His tag)[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	Serotonin Receptor 1A (HTR1A)
Protein Characteristics:	AA 1-422
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Serotonin Receptor 1A protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat HTR1A Protein expressed in mammalian cells.
Sequence:	<p>MDVLSPGQGN NTTSPAPFE TGGNTTGISD VTSYQVITS LLLGTLIFCA VLGNA CVVAA IALERSLQNV ANYLIGSLAV TDLMVSVLVL PMAALYQLN KWTLGQVTCD LFIALDVLCC TSSILHLCAI ALDRYWAITD PIDYVNRTP RRAALISLT WLIGFLISIP PMLGWRTPED RSDPDACTIS KDHGYTIYST FGAFYIPLLL MLVLYGRIFR AARFRIRKTV KKVEKTGADT RHGASPAPQP KKS VNGESGS RNWRLGVESK AGGALCANGA VRQDDGAAL EVIEVHRVGN SKEHLPLPSE AGPTPCAPAS FERKNERNAE AKRKMALARE RKT VKTLGII MGTFILCWLP FFIVALVLPF CESSCHMPTL LGAIINWLGYSNSLLNPVIY AYFNKDFQNA FKKIICKFC RQ</p> <p>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.</p> <p>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

Grade: custom-made

Target Details

Target: Serotonin Receptor 1A (HTR1A)

Alternative Name: HTR1A ([HTR1A Products](#))

Background: 5-hydroxytryptamine receptor 1A (5-HT-1A) (5-HT1A) (G-21) (Serotonin receptor 1A),FUNCTION: G-protein coupled receptor for 5-hydroxytryptamine (serotonin). Also functions as a receptor for various drugs and psychoactive substances. 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. Beta-arrestin family members inhibit signaling via G proteins and mediate activation of alternative signaling pathways. Signaling inhibits adenylate cyclase activity and activates a phosphatidylinositol-calcium second messenger system that regulates the release of Ca(2+) ions from intracellular stores. Plays a role in the regulation of 5-hydroxytryptamine release and in the regulation of dopamine and 5-hydroxytryptamine metabolism. Plays a role in the regulation of dopamine and 5-hydroxytryptamine levels in the brain, and thereby affects neural activity, mood and behavior. Plays a role in the response to anxiogenic stimuli.

{ECO:0000269|PubMed:22957663, ECO:0000269|PubMed:3138543, ECO:0000269|PubMed:8138923, ECO:0000269|PubMed:8393041}.

Target Details

Molecular Weight: 46.1 kDa

UniProt: [P08908](#)

Pathways: [JAK-STAT Signaling](#), [Synaptic Membrane](#), [Feeding Behaviour](#)

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