

Datasheet for ABIN7551813  
**HTR2A Protein (AA 1-471) (His tag)**



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## Overview

Quantity:	1 mg
Target:	HTR2A
Protein Characteristics:	AA 1-471
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This HTR2A protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Purpose:	Custom-made recombinat HTR2A Protein expressed in mammalian cells.
Sequence:	<p>MDILCEENTS LSSTTNSLMQ LNDDTRLYSN DFNSGEANTS DAFNWTVDSE NRTNLSCEGC</p> <p>LSPSCLSLH LQEKNSALL TAVVIILTIA GNILVIMAVS LEKKLQNATN YFLMSLAID</p> <p>MLLGFLVMPV SMLTILYGYR WPLPSKLCV WYLDVLFST ASIMHLCAIS LDRYVAIQNP</p> <p>IHHSRFNSRT KAFLKIIAVW TISVGISMPI PVFGLQDDSK VFKEGSCLLA DDNFVLIGSF</p> <p>VSFFIPLTIM VITYFLTICKS LQKEATLCVS DLGTRAKLAS FSFLPQSSLS SEKLFQRSIH</p> <p>REPGSYTGRR TMQISNEQK ACKVLGIVFF LFVVMWCPFF ITNIMAVICK ESCNEDVIGA</p> <p>LLNVFVWIGY LSSAVNPLVY TLFNKTYRSA FSRYIQCQYK ENKKPLQLIL VNTIPALAYK</p> <p>SSQLQMGQKK NSKQDAKTTD NDCSMVALGK QHSEEASKDN SDGVNEKVSC V <b>Sequence</b></p> <p><b>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.</b></p>

## Product Details

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### Characteristics:

### Key Benefits:

- 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

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### Target:

HTR2A

### Alternative Name:

HTR2A ([HTR2A Products](#))

### Background:

5-hydroxytryptamine receptor 2A (5-HT-2) (5-HT-2A) (Serotonin receptor 2A),FUNCTION: G-protein coupled receptor for 5-hydroxytryptamine (serotonin) (PubMed:1330647, PubMed:18703043, PubMed:19057895). Also functions as a receptor for various drugs and psychoactive substances, including mescaline, psilocybin, 1-(2,5-dimethoxy-4-iodophenyl)-2-aminopropane (DOI) and lysergic acid diethylamide (LSD) (PubMed:28129538). Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of down-stream effectors (PubMed:28129538). Beta-arrestin family members inhibit signaling via G proteins and mediate activation of alternative signaling pathways (PubMed:28129538). Signaling activates phospholipase C and a phosphatidylinositol-calcium second messenger system that modulates the activity of phosphatidylinositol 3-kinase and promotes the release of Ca(2+) ions from intracellular stores (PubMed:18703043, PubMed:28129538). Affects neural activity, perception, cognition and mood (PubMed:18297054). Plays a role in the regulation of behavior, including responses to

## Target Details

anxiogenic situations and psychoactive substances. Plays a role in intestinal smooth muscle contraction, and may play a role in arterial vasoconstriction. {ECO:0000269|PubMed:1330647, ECO:0000269|PubMed:18297054, ECO:0000269|PubMed:18703043, ECO:0000269|PubMed:19057895, ECO:0000269|PubMed:21645528, ECO:0000269|PubMed:22300836, ECO:0000269|PubMed:28129538}., FUNCTION: (Microbial infection) Acts as a receptor for human JC polyomavirus/JCPyV. {ECO:0000269|PubMed:24089568}.

Molecular Weight: 52.6 kDa

UniProt: [P28223](#)

Pathways: [JAK-STAT Signaling](#), [Inositol Metabolic Process](#), [Regulation of Carbohydrate Metabolic Process](#)

## 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