

Datasheet for ABIN7551814

**Serotonin Receptor 2B Protein (HTR2B) (AA 1-481) (His tag)**[Go to Product page](#)

## Overview

Quantity:	1 mg
Target:	Serotonin Receptor 2B (HTR2B)
Protein Characteristics:	AA 1-481
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Serotonin Receptor 2B protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Purpose:	Custom-made recombinant HTR2B Protein expressed in mammalian cells.
Sequence:	<p>MALSYRVSEL QSTIPEHILQ STFVHVISSN WSQLQTESIP EEMKQIVVEEQ GNKLHWAALL ILMVIPTIG GNTLVILAVS LEKKLQYATN YFLMSLAVAD LLVGLFVMPI ALLTIMFEAM WPLPLVLCPA WFLDVLVST ASIMHLCAIS VDRIYIAIKKQ IQANQYNSRA TAFIKITVWV LISIGIAIPV PIKGIETDVD NPNNITCVLT KERFGDFMLF GSAAFFFTPL AIMIVTYFLT IHALQKKAYL VKNKPPQRLT WLTVSTVFQR DETPCSSPEK VAMLDGSRKD KALPNSGDET LMRRTSTIGK KSVQTISNEQ RASKVLGIVF FLFLLMWCPF FITNITLVLC DSCNQTTLQM LLEIFVWIGY VSSGVNPLVY TLFNKTRFDA FGRYITCNYR ATKSVKTLRK RSSKIYFRNP MAENSKFFKK HGIRNGINPA MYQSPMRLRS STIQSSSIIL LDLLLLTENE GDKTEEQVSY V <b>Sequence without tag.</b></p> <p><b>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.

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### Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

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### Grade:

custom-made

## Target Details

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### Target:

Serotonin Receptor 2B (HTR2B)

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### Alternative Name:

HTR2B ([HTR2B Products](#))

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### Background:

5-hydroxytryptamine receptor 2B (5-HT-2B) (5-HT2B) (Serotonin receptor 2B),FUNCTION: G-protein coupled receptor for 5-hydroxytryptamine (serotonin) (PubMed:8143856, PubMed:7926008, PubMed:8078486, PubMed:8882600, PubMed:18703043, PubMed:23519210). Also functions as a receptor for various ergot alkaloid derivatives and psychoactive substances (PubMed:8143856, PubMed:7926008, PubMed:8078486, PubMed:12970106, PubMed:18703043, PubMed:23519210, PubMed:23519215, PubMed:24357322, 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:8143856, PubMed:8078486, PubMed:8882600, PubMed:23519215, PubMed:28129538). Beta-arrestin family members inhibit signaling via G proteins and mediate activation of alternative signaling pathways (PubMed:23519215, PubMed:28129538). Signaling activates a phosphatidylinositol-calcium second messenger system that modulates the activity of phosphatidylinositol 3-kinase and down-stream signaling

## Target Details

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cascades and promotes the release of Ca(2+) ions from intracellular stores (PubMed:8143856, PubMed:8078486, PubMed:8882600, PubMed:18703043, PubMed:23519215, PubMed:28129538). Plays a role in the regulation of dopamine and 5-hydroxytryptamine release, 5-hydroxytryptamine uptake and in the regulation of extracellular dopamine and 5-hydroxytryptamine levels, and thereby affects neural activity. May play a role in the perception of pain (By similarity). Plays a role in the regulation of behavior, including impulsive behavior (PubMed:21179162). Required for normal proliferation of embryonic cardiac myocytes and normal heart development. Protects cardiomyocytes against apoptosis. Plays a role in the adaptation of pulmonary arteries to chronic hypoxia. Plays a role in vasoconstriction. Required for normal osteoblast function and proliferation, and for maintaining normal bone density. Required for normal proliferation of the interstitial cells of Cajal in the intestine (By similarity). {ECO:0000250|UniProtKB:P30994, ECO:0000250|UniProtKB:Q02152, ECO:0000269|PubMed:12970106, ECO:0000269|PubMed:18703043, ECO:0000269|PubMed:21179162, ECO:0000269|PubMed:23519210, ECO:0000269|PubMed:23519215, ECO:0000269|PubMed:24357322, ECO:0000269|PubMed:28129538, ECO:0000269|PubMed:7926008, ECO:0000269|PubMed:8078486, ECO:0000269|PubMed:8143856, ECO:0000269|PubMed:8882600}.

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Molecular Weight: 54.3 kDa

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UniProt: [P41595](#)

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

## Application Details

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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.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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

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Handling Advice: Avoid repeated freeze-thaw cycles.

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## Handling

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months