

Datasheet for ABIN7551961

Angiotensin II Type-1 Receptor Protein (AA 1-359) (His tag)



[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	Angiotensin II Type-1 Receptor (AGTR1)
Protein Characteristics:	AA 1-359
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Angiotensin II Type-1 Receptor protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat AGTR1 Protein expressed in mammalian cells.
Sequence:	<p>MILNSSTEDG IKRIQDDCPK AGRHNYIFVM IPTLYSIIFV VGIFGNSLVV IVIYFYMKLK</p> <p>TVASVFLNL ALADLCFLT LPLWAVYTAM EYRWPFGNL CKIASASVSF NLYASVFLT</p> <p>CLSIDRYLAI VHPMKSRLRR TMLVAKVTCI IIWLLAGLAS LPaiHRNVF FIENTNITVC</p> <p>AFHYESQNST LPIGLGLTKN ILGFLFPFLI ILTSYTLWK ALKKAYEIQK NKPRNDDIFK IIMAIVLFFF</p> <p>FSWIPHQIFT FLDVLIQLGI IRDCRIADIV DTAMPITICI AYFNNCLNPL FYGFLGKKFK RYFLQLLKYI</p> <p>PPKAKSHSNL STKMSTLSYR PSDNVSSSTK KPAPCFEVE 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
---------	---

Grade:	custom-made
--------	-------------

Target Details

Target:	Angiotensin II Type-1 Receptor (AGTR1)
---------	--

Alternative Name:	AGTR1 (AGTR1 Products)
-------------------	--

Background:	Type-1 angiotensin II receptor (AT1AR) (AT1BR) (Angiotensin II type-1 receptor) (AT1 receptor), FUNCTION: Receptor for angiotensin II, a vasoconstricting peptide, which acts as a key regulator of blood pressure and sodium retention by the kidney (PubMed:1567413, PubMed:8987975, PubMed:15611106, PubMed:25913193, PubMed:26420482, PubMed:30639100, PubMed:32079768). The activated receptor in turn couples to G-alpha proteins G(q) (GNAQ, GNA11, GNA14 or GNA15) and thus activates phospholipase C and increases the cytosolic Ca(2+) concentrations, which in turn triggers cellular responses such as stimulation of protein kinase C (PubMed:15611106). {ECO:0000269 PubMed:15611106, ECO:0000269 PubMed:1567413, ECO:0000269 PubMed:25913193, ECO:0000269 PubMed:26420482, ECO:0000269 PubMed:30639100, ECO:0000269 PubMed:32079768, ECO:0000269 PubMed:8987975}., FUNCTION: (Microbial infection) During SARS coronavirus-2/SARS-CoV-2 infection, it is able to recognize and internalize the complex formed by secreted ACE2 and SARS-CoV-2 spike protein through DNMT2/dynamin 2-dependent endocytosis. {ECO:0000269 PubMed:33713620}.
-------------	--

Target Details

Molecular Weight:	41.1 kDa
UniProt:	P30556
Pathways:	JAK-STAT Signaling , ACE Inhibitor Pathway , Regulation of Systemic Arterial Blood Pressure by Hormones , 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