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Datasheet for ABIN7555183  
**RGS7 Protein (AA 1-495) (His tag)**

## Overview

Quantity:	1 mg
Target:	RGS7
Protein Characteristics:	AA 1-495
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RGS7 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Purpose:	Custom-made recombinat RGS7 Protein expressed in mammalien cells.
Sequence:	<p>MAQGNNYGQT SNGVADESPN MLVYRKMEDV IARMQDEKNG IPIRTVKSFL SKIPSVFSGS DIVQWLIKNL TIEDPVEALH LGTLMAAHGY FFPISDHVLT LKDDGTFYRF QTPYFWPSNC WEPENTDYAV YLCKRTMQNK ARLELADYEA ESLARLQRAF ARKWEFIFMQ AEAQAKVDKK RDKIERKILD SQERAFWDVH RPVPGCVNTT EVDIKKSSRM RNPBKTRKSV YGLQNDIRSH SPTHPTPET KPPTDELQQ QIKYWQIQLD RHRLKMSKVA DSLLSYTEQY LEYDPFLLPP DPSNPWLSDD TTFWELEASK EPSQQRVKRW GFGMDEALKD PVGREQFLKF LESEFSSEN RFLVAVEDLK KRPIKEVPSR VQEIWQEFLA PGAPSAINLD SKSYDKTTQN VKEPGRYTFE DAQEHYKLM KSDSYPRFIR SSAYQELLQA KKKSGNSMDR RTSFEKFAQN VGRNIPIFPC HKNCTPTLRA STNLL <b>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.</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:

RGS7

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### Alternative Name:

RGS7 ([RGS7 Products](#))

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### Background:

Regulator of G-protein signaling 7 (RGS7),FUNCTION: GTPase activator component of the RGS7-GNB5 complex that regulates G protein-coupled receptor signaling cascades (PubMed:10521509, PubMed:10862767, PubMed:31189666). The RGS7-GNB5 complex acts as an inhibitor signal transduction by promoting the GTPase activity of G protein alpha subunits, such as GNAO1, thereby driving them into their inactive GDP-bound form (PubMed:10521509, PubMed:10862767). May play a role in synaptic vesicle exocytosis (PubMed:12659861) (Probable). Glycine-dependent regulation of the RGS7-GNB5 complex by GPR158 affects mood and cognition via its ability to regulate neuronal excitability in L2/L3 pyramidal neurons of the prefrontal cortex (By similarity). Modulates the activity of potassium channels that are activated by GNAO1 in response to muscarinic acetylcholine receptor M2/CHRM2 signaling (PubMed:15897264). {ECO:0000250|UniProtKB:O54829, ECO:0000269|PubMed:10521509, ECO:0000269|PubMed:10862767, ECO:0000269|PubMed:15897264, ECO:0000269|PubMed:31189666, ECO:0000305|PubMed:12659861}.

## Target Details

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Molecular Weight:	57.7 kDa
UniProt:	<a href="#">P49802</a>
Pathways:	<a href="#">Myometrial Relaxation and Contraction, Regulation of G-Protein Coupled Receptor Protein Signaling</a>

## 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.
Restrictions:	For Research Use only

## Handling

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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