Datasheet for ABIN7551306

RGS2 Protein (AA 1-211) (His tag)

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Overview

Quantity:	1 mg
Target:	RGS2
Protein Characteristics:	AA 1-211
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RGS2 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat RGS2 Protein expressed in mammalien cells.
Sequence:	MQSAMFLAVQ HDCRPMDKSA GSGHKSEEKR EKMKRTLLKD WKTRLSYFLQ NSSTPGKPKT GKKSKQQAFI KPSPEEAQLW SEAFDELLAS KYGLAAFRAF LKSEFCEENI EFWLACEDFK KTKSPQKLSS KARKIYTDFI EKEAPKEINI DFQTKTLIAQ NIQEATSGCF TTAQKRVYSL MENNSYPRFL ESEFYQDLCK KPQITTEPHA T **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.**
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalien cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and

Product Details

	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:	RGS2
Alternative Name:	RGS2 (RGS2 Products)
Background:	Regulator of G-protein signaling 2 (RGS2) (Cell growth-inhibiting gene 31 protein) (G0/G1 switch regulatory protein 8),FUNCTION: Regulates G protein-coupled receptor signaling cascades. Inhibits signal transduction by increasing the GTPase activity of G protein alpha subunits, thereby driving them into their inactive GDP-bound form (PubMed:11063746, PubMed:19478087). It is involved in the negative regulation of the angiotensin-activated signaling pathway (PubMed:28784619). Plays a role in the regulation of blood pressure in response to signaling via G protein-coupled receptors and GNAQ. Plays a role in regulating the constriction and relaxation of vascular smooth muscle (By similarity). Binds EIF2B5 and blocks its activity, thereby inhibiting the translation of mRNA into protein (PubMed:19736320). {ECO:0000250|UniProtKB:O08849, ECO:0000269|PubMed:11063746, ECO:0000269|PubMed:11278586, ECO:0000269|PubMed:17901199, ECO:0000269|PubMed:19736320, ECO:0000269|PubMed:28784619, ECO:0000305|PubMed:7643615}.
Molecular Weight:	24.4 kDa
UniProt:	P41220
Pathways:	Myometrial Relaxation and Contraction, Regulation of G-Protein Coupled Receptor Protein

Target Details

	Signaling, Brown Fat Cell Differentiation

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

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