

Datasheet for ABIN7547847
GNB5 Protein (AA 1-395) (His tag)



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Overview

Quantity:	1 mg
Target:	GNB5
Protein Characteristics:	AA 1-395
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GNB5 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant GNB5 Protein expressed in mammalian cells.
Sequence:	MCDQTFLVNV FGSCDKCFKQ RALRPVFKKS QQLSYCSTCA EIMATEGLHE NETLASLKSE AESLKGKLEE ERAKLHDVEL HQVAERVEAL GQFVMKTRRT LKGHGKVLVC MDWCKDKRRI VSSSQDGKVI VWDSFTTNKE HAVTMPCTWV MACAYAPSGC AIACGGLDNK CSVYPLTFDK NENMAAKKKS VAMHTNYLSA CSFTNSDMQI LTASGDGTCA LWDVESGQLL QSFHGHGADV LCLDLAPSET GNTFVSGGCD KKAMVWDMRS GQCVQAFETH ESDINSVRY Y PSGDAFASGS DDATCRLYDL RADREVAIYS KESIIFGASS VDFSLSGRLL FAGYNDYTIN VWDVLKGSRV SILFGHENRV STLRVSPDGT AFCSGSWDHT LRVWA 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.
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Product Details

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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade:

custom-made

Target Details

Target:

GNB5

Alternative Name:

GNB5 ([GNB5 Products](#))

Background:

Guanine nucleotide-binding protein subunit beta-5 (Gbeta5) (Transducin beta chain 5),FUNCTION: Enhances GTPase-activating protein (GAP) activity of regulator of G protein signaling (RGS) proteins, such as RGS7 and RGS9, hence involved in the termination of the signaling initiated by the G protein coupled receptors (GPCRs) by accelerating the GTP hydrolysis on the G-alpha subunits, thereby promoting their inactivation (PubMed:27677260). Increases RGS7 GTPase-activating protein (GAP) activity, thereby regulating mood and cognition (By similarity). Increases RGS9 GTPase-activating protein (GAP) activity, hence contributes to the deactivation of G protein signaling initiated by D(2) dopamine receptors (PubMed:27677260). May play an important role in neuronal signaling, including in the parasympathetic, but not sympathetic, control of heart rate (By similarity). {ECO:0000250|UniProtKB:A1L271, ECO:0000250|UniProtKB:P62881, ECO:0000269|PubMed:27677260}.

Molecular Weight:

43.6 kDa

Target Details

UniProt: [O14775](#)

Pathways: [Myometrial Relaxation and Contraction, Regulation of G-Protein Coupled Receptor Protein Signaling](#), [Thromboxane A2 Receptor Signaling](#)

Application Details

Application Notes: We expect the protein to work for functional studies. 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
