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GABBR2 Protein (AA 742-941) (His tag)



Image



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Quantity:	1 mg
Target:	GABBR2
Protein Characteristics:	AA 742-941
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This GABBR2 protein is labelled with His tag.
Application:	Western Blotting (WB), ELISA, Crystallization (Crys), SDS-PAGE (SDS)
Product Details	
Sequence:	PKLITLRTNP DAATQNRRFQ FTQNQKKEDS KTSTSVTSVN QASTSRLEGL QSENHRLRMK
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	ITELDKDLEE VTMQLQDTPE KTTYIKQNHY QELNDILNLG NFTESTDGGK AILKNHLDQN PQLQWNTTEP SRTCKDPIED INSPEHIQRR LSLQLPILHH AYLPSIGGVD ASCVSPCVSP TASPRHRHVP PSFRVMVSGL Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us. • Made in Germany - from design to production - by highly experienced protein experts. • Human GABBR2 Protein (raised in E. Coli) purified by multi-step, protein-specific process to ensure crystallization grade.

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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm.

The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in bacterial culture:

- 1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
- 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity:

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility:

0.22 µm filtered

Endotoxin Level:

Endotoxin has not been removed. Please contact us if you require endotoxin removal.

Grade:

Crystallography grade

Target Details

Target:	GABBR2	
Alternative Name:	GABBR2 (GABBR2 Products)	
Background:	Component of a heterodimeric G-protein coupled receptor for GABA, formed by GABBR1 and GABBR2. Within the heterodimeric GABA receptor, only GABBR1 seems to bind agonists, while	
	GABBR2 mediates coupling to G proteins. Ligand binding causes a conformation change that	

triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the		
activity of down-stream effectors, such as adenylate cyclase. Signaling inhibits adenylate		
cyclase, stimulates phospholipase A2, activates potassium channels, inactivates voltage-		
dependent calcium-channels and modulates inositol phospholipid hydrolysis. Plays a critical		
role in the fine-tuning of inhibitory synaptic transmission. Pre-synaptic GABA receptor inhibits		
neurotransmitter release by down-regulating high-voltage activated calcium channels, whereas		
postsynaptic GABA receptor decreases neuronal excitability by activating a prominent inwardly		
rectifying potassium (Kir) conductance that underlies the late inhibitory postsynaptic potentials.		
Not only implicated in synaptic inhibition but also in hippocampal long-term potentiation, slow		
wave sleep, muscle relaxation and antinociception. {ECO:0000269 PubMed:10328880,		
ECO:0000269 PubMed:18165688, ECO:0000269 PubMed:22660477,		
ECO:0000269 PubMed:24305054, ECO:0000269 PubMed:9872316}.		

Molecular Weight:	23.6 kDa Including tag.
UniProt:	075899
Pathways:	cAMP Metabolic Process

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 gurantee though.
Comment:	In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.

Restrictions: For Research Use only

Handling

Format:	Liquid	
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value 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:

Unlimited (if stored properly)

Images



Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process