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Datasheet for ABIN3092655 GABBR1 Protein (AA 15-591) (His tag)



Overview

Quantity:	1 mg
Target:	GABBR1
Protein Characteristics:	AA 15-591
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GABBR1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

	special request, please contact us.
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	STKDDLSWSK TDKWIGGSPP ADQTLVIKTF RFLSQKL
	LEDFNYNNQT ITDQIYRAMN SSSFEGVSGH VVFDASGSRM AWTLIEQLQG GSYKKIGYYD
	TRSISNMTSQ EFVEKLTKRL KRHPEETGGF QEAPLAYDAI WALALALNKT SGGGGRSGVR
	FCEVYKERLF GKKYVWFLIG WYADNWFKIY DPSINCTVDE MTEAVEGHIT TEIVMLNPAN
	TTEVFTSTLD DLEERVKEAG IEITFRQSFF SDPAVPVKNL KRQDARIIVG LFYETEARKV
	EAARMWNLIV LSYGSSSPAL SNRQRFPTFF RTHPSATLHN PTRVKLFEKW GWKKIATIQQ
	ALEDVNSRRD ILPDYELKLI HHDSKCDPGQ ATKYLYELLY NDPIKIILMP GCSSVSTLVA
	FHLVGSSRSI CSQGQWSTPK PHCQVNRTPH SERRAVYIGA LFPMSGGWPG GQACQPAVEM
	GPKVRKCLAN GSWTDMDTPS RCVRICSKSY LTLENGKVFL TGGDLPALDG ARVDFRCDPD
Sequence:	PGAGGAQTPN ATSEGCQIIH PPWEGGIRYR GLTRDQVKAI NFLPVDYEIE YVCRGEREVV

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Characteristics:	Madain Oamaana firma daaine ta madaatine daabinda muutain adamatain amaata
Characteristics.	 Made in Germany - from design to production - by highly experienced protein experts. Human GABBR1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade. 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 will ensure that you receive a correctly folded protein.
	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 baculovirus infected SF9 insect cells:
	 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.
	 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:	Protein is endotoxin free.
Grade:	Crystallography grade

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Target:	GABBR1
Alternative Name:	GABBR1 (GABBR1 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. Calcium is
	required for high affinity binding to GABA. 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. Activated by (-)-baclofen, cgp27492 and blocked by phaclofen.,
	Isoform 1E may regulate the formation of functional GABBR1/GABBR2 heterodimers by
	competing for GABBR2 binding. This could explain the observation that certain small molecule
	ligands exhibit differential affinity for central versus peripheral sites.
Molecular Weight:	65.8 kDa Including tag.
UniProt:	Q9UBS5
Pathways:	Positive Regulation of Peptide Hormone Secretion, 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

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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)