Datasheet for ABIN7554858

MGEA5 Protein (AA 1-916) (His tag)

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Overview

Quantity:	1 mg
Target:	MGEA5
Protein Characteristics:	AA 1-916
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MGEA5 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant OGA Protein expressed in mammalian cells.
Sequence:	MVQKESQATL EERESELSSN PAASAGASLE PPAAPAPGED NPAGAGGAAV AGAAGGARRF LCGVVEGFYG RPWVMEQRKE LFRRLQKWEL NTYLYAPKDD YKHRMFWREM YSVEEAEQLM TLISAAREYE IEFIYAISPG LDITFSNPKE VSTLKRKLDQ VSQFGCRSFA LLFDDIDHNM CAADKEVFSS FAHAQVSITN EIYQYLGEPE TFLFCPTEYC GTFCYPNVSQ SPYLRTVGEK LLPGIEVLWT GPKVVSKEIP VESIEEVSKI IKRAPVIWDN IHANDYDQKR LFLGPYKGRS TELIPRLKGV LTNPNCEFEA NYVAIHTLAT WYKSNMNGVR KDVVMTDSED STVSIQIKLE NEGSDEDIET DVLYSPQMAL KLALTEWLQE FGVPHQYSSR QVAHSGAKAS VVDGTPLVAA PSLNATTVVT TVYQEPIMSQ GAALSGEPTT LTKEEEKKQP DEEPMDMVVE KQEETDHKND NQILSEIVEA KMAEELKPMD TDKESIAESK SPEMSMQEDC ISDIAPMQTD EQTNKEQFVP GPNEKPLYTA EPVTLEDLQL LADLFYLPYE HGPKGAQMLR EFQWLRANSS VVSVNCKGKD SEKIEEWRSR AAKFEEMCGL VMGMFTRLSN CANRTILYDM YSYVWDIKSI MSMVKSFVQW LGCRSHSSAQ FLIGDQEPWA FRGGLAGEFQ RLLPIDGAND LFFQPPPLTP TSKVYTIRPY

Product Details

	FPKDEASVYK ICREMYDDGV GLPFQSQPDL IGDKLVGGLL SLSLDYCFVL EDEDGICGYA LGTVDVTPFI KKCKISWIPF MQEKYTKPNG DKELSEAEKI MLSFHEEQEV LPETFLANFP SLIKMDIHKK VTDPSVAKSM MACLLSSLKA NGSRGAFCEV RPDDKRILEF YSKLGCFEIA KMEGFPKDVV ILGRSL **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.
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:	MGEA5
Alternative Name:	OGA (MGEA5 Products)
Background:	Protein O-GlcNAcase (OGA) (EC 3.2.1.169) (Beta-N-acetylglucosaminidase) (Beta-N-acetylhexosaminidase) (Beta-hexosaminidase) (Meningioma-expressed antigen 5) (N-acetyl-beta-D-glucosaminidase) (N-acetyl-beta-glucosaminidase) (Nuclear cytoplasmic O-GlcNAcase and acetyltransferase) (NCOAT),FUNCTION: [Isoform 1]: Cleaves GlcNAc but not GalNAc from O-glycosylated proteins (PubMed:11148210, PubMed:11788610, PubMed:20673219,

Target Details

	PubMed:22365600, PubMed:24088714, PubMed:28939839). Deglycosylates a large and diverse number of proteins, such as CRYAB, ELK1, LMNB1 and TAB1 (PubMed:28939839). Can use p-nitrophenyl-beta-GlcNAc and 4-methylumbelliferone-GlcNAc as substrates but not p-nitrophenyl-beta-GalNAc or p-nitrophenyl-alpha-GlcNAc (in vitro) (PubMed:20673219). Does not bind acetyl-CoA and does not have histone acetyltransferase activity (PubMed:24088714). {ECO:0000269|PubMed:11148210, ECO:0000269|PubMed:11788610, ECO:0000269|PubMed:20673219, ECO:0000269|PubMed:22365600, ECO:0000269|PubMed:24088714, ECO:0000269|PubMed:28939839}., FUNCTION: [Isoform 3]: Cleaves GlcNAc but not GalNAc from O-glycosylated proteins. Can use p-nitrophenyl-beta-GlcNAc as substrate but not p-nitrophenyl-beta-GalNAc or p-nitrophenyl-alpha-GlcNAc (in vitro), but has about six times lower specific activity than isoform 1. {ECO:0000269|PubMed:20673219}.
Molecular Weight:	102.9 kDa
UniProt:	O60502
Pathways:	Positive Regulation of Peptide Hormone Secretion, Regulation of Carbohydrate Metabolic Process

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