Datasheet for ABIN3089042

FE65 Protein (AA 1-710) (His tag)

1 Image

Go to Product page

Overview

Quantity:	1 mg
Target:	FE65 (APBB1)
Protein Characteristics:	AA 1-710
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FE65 protein is labelled with His tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS), Crystallization (Crys)

Product Details

Sequence:	MSVPSSLSQS AINANSHGGP ALSLPLPLHA AHNQLLNAKL QATAVGPKDL RSAMGEGGGP EPGPANAKWL KEGQNQLRRA ATAHRDQNRN VTLTLAEEAS QEPEMAPLGP KGLIHLYSEL ELSAHNAANR GLRGPGLIIS TQEQGPDEGE EKAAGEAEEE EEDDDDEEEE EDLSSPPGLP EPLESVEAPP RPQALTDGPR EHSKSASLLF GMRNSAASDE DSSWATLSQG SPSYGSPEDT DSFWNPNAFE TDSDLPAGWM RVQDTSGTYY WHIPTGTTQW EPPGRASPSQ GSSPQEESQL TWTGFAHGEG FEDGEFWKDE PSDEAPMELG LKEPEEGTLT FPAQSLSPEP LPQEEEKLPP RNTNPGIKCF AVRSLGWVEM TEEELAPGRS SVAVNNCIRQ LSYHKNNLHD PMSGGWGEGK DLLLQLEDET LKLVEPQSQA LLHAQPIISI RVWGVGRDSG RERDFAYVAR DKLTQMLKCH VFRCEAPAKN IATSLHEICS KIMAERRNAR CLVNGLSLDH SKLVDVPFQV EFPAPKNELV QKFQVYYLGN VPVAKPVGVD VINGALESVL SSSSREQWTP SHVSVAPATL TILHQQTEAV LGECRVRFLS FLAVGRDVHT FAFIMAAGPA SFCCHMFWCE PNAASLSEAV QAACMLRYQK CLDARSQAST SCLPAPPAES VARRVGWTVR RGVQSLWGSL KPKRLGAHTP

Product Details

	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.
Characteristics:	• Made in Germany - from design to production - by highly experienced protein experts. • Human APBB1 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: 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:	Protein is endotoxin free.
Grade:	Crystallography grade

Target Details

Target:	FE65 (APBB1)
Alternative Name:	APBB1 (APBB1 Products)
Background:	Transcription coregulator that can have both coactivator and corepressor functions. Adapter protein that forms a transcriptionally active complex with the gamma-secretase-derived amyloid precursor protein (APP) intracellular domain. Plays a central role in the response to DNA damage by translocating to the nucleus and inducing apoptosis. May act by specifically recognizing and binding histone H2AX phosphorylated on 'Tyr-142' (H2AXY142ph) at double-strand breaks (DSBs), recruiting other pro-apoptosis factors such as MAPK8/JNK1. Required for histone H4 acetylation at double-strand breaks (DSBs). Its ability to specifically bind modified histones and chromatin modifying enzymes such as KAT5/TIP60, probably explains its trancription activation activity. Function in association with TSHZ3, SET and HDAC factors as a transcriptional repressor, that inhibits the expression of CASP4. Associates with chromatin in a region surrounding the CASP4 transcriptional start site(s). {ECO:0000269|PubMed:15031292, ECO:0000269|PubMed:18468999, ECO:0000269|PubMed:18922798, ECO:0000269|PubMed:19234442, ECO:0000269|PubMed:19343227}.
Molecular Weight:	78.2 kDa Including tag.
UniProt:	O00213
Pathways:	Positive Regulation of Response to DNA Damage Stimulus

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.
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

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Handling

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

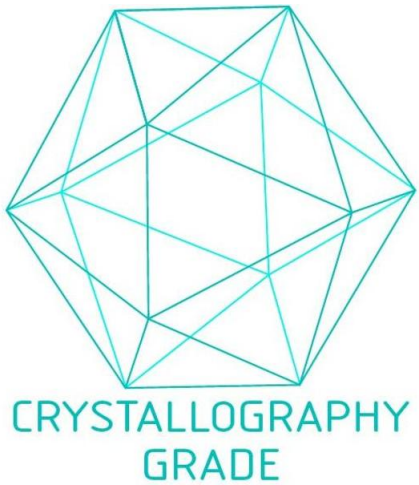

Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process