

Datasheet for ABIN3135218 IGF2BP2 Protein (AA 1-592) (His tag)



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1 Image

Overview

Quantity:	1 mg
Target:	IGF2BP2
Protein Characteristics:	AA 1-592
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This IGF2BP2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence: MMNKLYIGNL SPAVTADDLR QLFGDRKLPL AGQVLLKSGY AFVDYPDQNW AIRAIETLSG
KVELHGKIME VDYSVSKKLR SRRIQIRNIP PHLQWEVLDG LLAEYGTVEN VEQVNTDTET
AVVNVTYMTR EEAKLAIKL SGHQFEDYSF KISYIPDEEV SSPSPPHRAR EQGHGPGSSS
QARQIDFPLR ILVPTQFVGA IIGKEGLTIK NITKQTQSRV DIHRKENSGA AEKPVTIHAT
PEGTSEACRM ILEIMQKEAD ETKLAAEVPL KILAHNGFVG RLIGKEGRNL KKIEHETGTK
ITISSLQDLS IYNPERTITV RGTIEACANA EIEIMKKLRE AFENDMLAVN QQANLIPGLN
LSALGIFSTG LSVLPPPAGP RGVPPSPPYH PFATHSGYFS SLYPHHHFGP FPHHHSYPEQ
ETVSLFIPTQ AVGAIIGKKG AHIKQLARFA GASIKIAPAE GPDVSERMVI ITGPPEAQFK
AQGRIFGKLK EENFFNPKEE VKLEAHIRVP SSTAGRVIGK GGKTVNELQN LTSAEVIVPR
DQTPDENEEV IVRIIGHFFA SQTARQKIRE IVQQVKQQEQ RYPQGVAPQR S

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Product Details

Characteristics:	<ul style="list-style-type: none">• Made in Germany - from design to production - by highly experienced protein experts.• Mouse Igf2bp2 Protein (raised in E. Coli) purified by multi-step, protein-specific process to ensure crystallization grade.• State-of-the-art algorithm used for plasmid design (Gene synthesis). <p>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.</p> <p>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.</p> <p>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).</p> <p>When you order this made-to-order protein you will only pay upon receipt 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.</p> <p>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.</p> <p>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.</p>
Purification:	<p>Two step purification of proteins expressed in bacterial culture:</p> <ol style="list-style-type: none">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:	IGF2BP2
Alternative Name:	Igf2bp2 (IGF2BP2 Products)
Background:	RNA-binding factor that recruits target transcripts to cytoplasmic protein-RNA complexes (mRNPs). This transcript 'caging' into mRNPs allows mRNA transport and transient storage. It also modulates the rate and location at which target transcripts encounter the translational apparatus and shields them from endonuclease attacks or microRNA-mediated degradation (By similarity). Binds to the 5'-UTR of the insulin-like growth factor 2 (IGF2) mRNAs. Binding is isoform-specific. Binds to beta-actin/ACTB and MYC transcripts (By similarity). {ECO:0000250}.
Molecular Weight:	66.4 kD. Including tag.
UniProt:	Q5SF07

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:	Protein has not been tested for activity yet. 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)



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