

## Datasheet for ABIN3093001 IGF2BP1 Protein (AA 1-577) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	IGF2BP1
Protein Characteristics:	AA 1-577
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This IGF2BP1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Brand:	AliCE®
Sequence:	MNKLYIGNLN ESVTPADLEK VFAEHKISYS GQFLVKSGYA FVDCPDEHWA MKAIETFSGK
	VELQGKRLEI EHSVPKKQRS RKIQIRNIPP QLRWEVLDSL LAQYGTVENC EQVNTESETA
	VVNVTYSNRE QTRQAIMKLN GHQLENHALK VSYIPDEQIA QGPENGRRGG FGSRGQPRQG
	SPVAAGAPAK QQQVDIPLRL LVPTQYVGAI IGKEGATIRN ITKQTQSKID VHRKENAGAA
	EKAISVHSTP EGCSSACKMI LEIMHKEAKD TKTADEVPLK ILAHNNFVGR LIGKEGRNLK
	KVEQDTETKI TISSLQDLTL YNPERTITVK GAIENCCRAE QEIMKKVREA YENDVAAMSL
	QSHLIPGLNL AAVGLFPASS SAVPPPPSSV TGAAPYSSFM QAPEQEMVQV FIPAQAVGAI
	IGKKGQHIKQ LSRFASASIK IAPPETPDSK VRMVIITGPP EAQFKAQGRI YGKLKEENFF
	GPKEEVKLET HIRVPASAAG RVIGKGGKTV NELQNLTAAE VVVPRDQTPD ENDQVIVKII
	GHFYASQMAQ RKIRDILAQV KQQHQKGQSN QAQARRK
	Sequence without tag. The proposed Strep-Tag is based on experience s with the expression

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	system, a different complexity of the protein could make another tag necessary. In cas	
	have a special request, please contact us.	
Characteristics:	Key Benefits:	
	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Protein expressed with ALiCE® and purified in one-step affinity chromatography</li> <li>These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).</li> <li>State-of-the-art algorithm used for plasmid design (Gene synthesis).</li> </ul>	
	This protein is a <b>made-to-order protein</b> and will be made for the first time for your order. Our	
	experts in the lab try to ensure that you receive soluble 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.	
	Expression System:	
	<ul> <li>ALICE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.</li> <li>During lysate production, the cell wall and other cellular components that are not required fo protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!</li> </ul>	
	Concentration:	
	<ul> <li>The concentration of our recombinant proteins is measured using the absorbance at 280nm</li> <li>The protein's absorbance will be measured against its specific reference buffer.</li> <li>We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.</li> </ul>	
Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).	
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).	

Grade:

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Target D	etails)
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Target:	IGF2BP1
Alternative Name:	IGF2BP1 (IGF2BP1 Products)
Background:	Insulin-like growth factor 2 mRNA-binding protein 1 (IGF2 mRNA-binding protein 1) (IMP-1)
	(IMP1) (Coding region determinant-binding protein) (CRD-BP) (IGF-II mRNA-binding protein 1)
	(VICKZ family member 1) (Zipcode-binding protein 1) (ZBP-1),FUNCTION: RNA-binding factor
	that recruits target transcripts to cytoplasmic protein-RNA complexes (mRNPs). This transcrip
	'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 the
	from endonuclease attacks or microRNA-mediated degradation. Preferentially binds to N6-
	methyladenosine (m6A)-containing mRNAs and increases their stability (PubMed:29476152,
	PubMed:32245947). Plays a direct role in the transport and translation of transcripts required
	for axonal regeneration in adult sensory neurons (By similarity). Regulates localized beta-
	actin/ACTB mRNA translation, a crucial process for cell polarity, cell migration and neurite
	outgrowth. Co-transcriptionally associates with the ACTB mRNA in the nucleus. This binding
	involves a conserved 54-nucleotide element in the ACTB mRNA 3'-UTR, known as the 'zipcode
	The RNP thus formed is exported to the cytoplasm, binds to a motor protein and is transporte
	along the cytoskeleton to the cell periphery. During transport, prevents ACTB mRNA from beir
	translated into protein. When the RNP complex reaches its destination near the plasma
	membrane, IGF2BP1 is phosphorylated. This releases the mRNA, allowing ribosomal 40S and
	60S subunits to assemble and initiate ACTB protein synthesis. Monomeric ACTB then
	assembles into the subcortical actin cytoskeleton (By similarity). During neuronal developmen
	key regulator of neurite outgrowth, growth cone guidance and neuronal cell migration,
	presumably through the spatiotemporal fine tuning of protein synthesis, such as that of ACTB
	(By similarity). May regulate mRNA transport to activated synapses (By similarity). Binds to ar
	stabilizes ABCB1/MDR-1 mRNA (By similarity). During interstinal wound repair, interacts with
	and stabilizes PTGS2 transcript. PTGS2 mRNA stabilization may be crucial for colonic mucos
	wound healing (By similarity). Binds to the 3'-UTR of IGF2 mRNA by a mechanism of
	cooperative and sequential dimerization and regulates IGF2 mRNA subcellular localization and
	translation. Binds to MYC mRNA, in the coding region instability determinant (CRD) of the ope
	reading frame (ORF), hence preventing MYC cleavage by endonucleases and possibly
	microRNA targeting to MYC-CRD (PubMed:29476152). Binding to MYC mRNA is enhanced by
	m6A-modification of the CRD (PubMed:29476152). Binds to the 3'-UTR of CD44 mRNA and
	stabilizes it, hence promotes cell adhesion and invadopodia formation in cancer cells. Binds to
	the oncofetal H19 transcript and to the neuron-specific TAU mRNA and regulates their
	localizations. Binds to and stabilizes BTRC/FBW1A mRNA. Binds to the adenine-rich

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autoregulatory sequence (ARS) located in PABPC1 mRNA and represses its translation.
PABPC1 mRNA-binding is stimulated by PABPC1 protein. Prevents BTRC/FBW1A mRNA
degradation by disrupting microRNA-dependent interaction with AGO2. Promotes the directed
movement of tumor-derived cells by fine-tuning intracellular signaling networks. Binds to
MAPK4 3'-UTR and inhibits its translation. Interacts with PTEN transcript open reading frame
(ORF) and prevents mRNA decay. This combined action on MAPK4 (down-regulation) and
PTEN (up-regulation) antagonizes HSPB1 phosphorylation, consequently it prevents G-actin
sequestration by phosphorylated HSPB1, allowing F-actin polymerization. Hence enhances the
velocity of cell migration and stimulates directed cell migration by PTEN-modulated
polarization. Interacts with Hepatitis C virus (HCV) 5'-UTR and 3'-UTR and specifically enhances
translation at the HCV IRES, but not 5'-cap-dependent translation, possibly by recruiting eIF3.
Interacts with HIV-1 GAG protein and blocks the formation of infectious HIV-1 particles.
Reduces HIV-1 assembly by inhibiting viral RNA packaging, as well as assembly and processing
of GAG protein on cellular membranes. During cellular stress, such as oxidative stress or heat
shock, stabilizes target mRNAs that are recruited to stress granules, including CD44, IGF2,
MAPK4, MYC, PTEN, RAPGEF2 and RPS6KA5 transcripts. {ECO:0000250,
ECO:0000269 PubMed:10875929, ECO:0000269 PubMed:16356927,
ECO:0000269 PubMed:16541107, ECO:0000269 PubMed:16778892,
EC0:0000269 PubMed:17101699, EC0:0000269 PubMed:17255263,
EC0:0000269 PubMed:17893325, EC0:0000269 PubMed:18385235,
ECO:0000269 PubMed:19029303, ECO:0000269 PubMed:19541769,
EC0:0000269 PubMed:19647520, EC0:0000269 PubMed:20080952,
EC0:0000269 PubMed:22279049, EC0:0000269 PubMed:29476152,
EC0:0000269 PubMed:32245947, EC0:0000269 PubMed:8132663,
ECO:0000269 PubMed:9891060}.
63.5 kDa

Molecular Weight:

UniProt:

Q9NZI8

## 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:	ALICE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from
	Nicotiana tabacum c.v This contains all the protein expression machinery needed to produce

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	even the most difficult-to-express proteins, including those that require post-translational modifications.
	During lysate production, the cell wall and other cellular components that are not required for
	protein production are removed, leaving only the protein production machinery and the
	mitochondria to drive the reaction. During our lysate completion steps, the additional
	components needed for protein production (amino acids, cofactors, etc.) are added to produce
	something that functions like a cell, but without the constraints of a living system - all that's
	needed is the DNA that codes for the desired protein!
Restrictions:	For Research Use only
Handling	
Handling Format:	Liquid
	Liquid The buffer composition is at the discretion of the manufacturer.
Format:	· · · · · · · · · · · · · · · · · · ·
Format:	The buffer composition is at the discretion of the manufacturer.
Format: Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol <b>Might differ depending on protein.</b>
Format: Buffer: Handling Advice:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol <b>Might differ depending on protein.</b> Avoid repeated freeze-thaw cycles.