Datasheet for ABIN3092857

GRB10 Protein (AA 1-594) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	GRB10
Protein Characteristics:	AA 1-594
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This GRB10 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	MALAGCPDSF LHHPYYQDKV EQTPRSQQDP AGPGLPAQSD RLANHQEDDV DLEALVNDMN ASLESLYSAC SMQSDTVPLL QNGQHARSQP RASGPPRSIQ PQVSPRQRVQ RSQPVHILAV RRLQEEDQQF RTSSLPAIPN PFPELCGPGS PPVLTPGSLP PSQAAAKQDV KVFSEDGTSK VVEILADMTA RDLCQLLVYK SHCVDDNSWT LVEHHPHLGL ERCLEDHELV VQVESTMASE SKFLFRKNYA KYEFFKNPMN FFPEQMVTWC QQSNGSQTQL LQNFLNSSSC PEIQGFLHVK ELGKKSWKKL YVCLRRSGLY CSTKGTSKEP RHLQLLADLE DSNIFSLIAG RKQYNAPTDH GLCIKPNKVR NETKELRLLC AEDEQTRTCW MTAFRLLKYG MLLYQNYRIP QQRKALLSPF STPVRSVSEN SLVAMDFSGQ TGRVIENPAE AQSAALEEGH AWRKRSTRMN ILGSQSPLHP STLSTVIHRT QHWFHGRISR EESHRIIKQQ GLVDGLFLLR DSQSNPKAFV LTLCHHQKIK NFQILPCEDD GQTFFSLDDG NTKFSDLIQL VDFYQLNKGV LPCKLKHHCI RVAL **Sequence without tag. The proposed Strep-Tag is based on experience s 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.
Characteristics:	Key Benefits: • Made in Germany - from design to production - by highly experienced protein experts. • Protein expressed with ALiCE® and purified in one-step affinity chromatography • These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed). • 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. 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: • 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. • 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! Concentration: • The concentration of our recombinant proteins is measured using the absorbance at 280nm. • The protein's absorbance will be measured against its specific reference buffer. • We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.
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:	custom-made

Target Details

Target:	GRB10
Alternative Name:	GRB10 (GRB10 Products)
Background:	Growth factor receptor-bound protein 10 (GRB10 adapter protein) (Insulin receptor-binding protein Grb-IR),FUNCTION: Adapter protein which modulates coupling of a number of cell surface receptor kinases with specific signaling pathways. Binds to, and suppress signals from, activated receptors tyrosine kinases, including the insulin (INSR) and insulin-like growth factor (IGF1R) receptors. The inhibitory effect can be achieved by 2 mechanisms: interference with the signaling pathway and increased receptor degradation. Delays and reduces AKT1 phosphorylation in response to insulin stimulation. Blocks association between INSR and IRS1 and IRS2 and prevents insulin-stimulated IRS1 and IRS2 tyrosine phosphorylation. Recruits NEDD4 to IGF1R, leading to IGF1R ubiquitination, increased internalization and degradation by both the proteasomal and lysosomal pathways. May play a role in mediating insulin-stimulated ubiquitination of INSR, leading to proteasomal degradation. Negatively regulates Wnt signaling by interacting with LRP6 intracellular portion and interfering with the binding of AXIN1 to LRP6. Positive regulator of the KDR/VEGFR-2 signaling pathway. May inhibit NEDD4-mediated degradation of KDR/VEGFR-2. {ECO:0000269|PubMed:12493740, ECO:0000269|PubMed:15060076, ECO:0000269|PubMed:16434550, ECO:0000269|PubMed:17376403}.
Molecular Weight:	67.2 kDa
UniProt:	Q13322
Pathways:	Regulation of Carbohydrate Metabolic Process, Signaling Events mediated by VEGFR1 and VEGFR2

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 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

Application Details

	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

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months