

Datasheet for ABIN3092832

GRB7 Protein (AA 1-532) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	GRB7
Protein Characteristics:	AA 1-532
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This GRB7 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	<p>MELDLSPPHL SSSPEDLCPA PGTPPGTTPRP PDTPLPEEVK RSQPLLIPTT GRKLREEERR ATSLPSIPNP FPELCSPPSQ SPILGGPSSA RGLLPDASR PHVVKVYSED GACRSVEVAA GATARHVCES LVQRAHALSD ETWGLVECHP HLALEGLD HESVVEVQAA WPVGGDSRFV FRKNFAKYEL FKSSPHSLFP EKMVSSCLDA HTGISHEDLI QNFLNAGSFP EIQGFLLQRLG SGRKLWKRFF CFLRRSGLYY STKGTSKDPR HLQYVADVNE SNVYVVTQGR KLYGMPTDFG FCVKPNKLRN GHKGLRIFCS EDEQSRTCWL AAFRLFKYGV QLYKNYQQAQ SRHLHPSCLG SPPLRSASDN TLVAMDFSGH AGRVIENPRE ALSVALEEAQ AWRKKTNHRL SLPMPASGTS LSAAIHRTQL WFHGRISREE SQRLIGQQGL VDGLFLVRES QRNPQGFVLS LCHLQKVKH LILPSEEEGR LYFSMDDGQT RFTDLLQLVE FHQLNRGILP CLLRHCCTRV AL</p> <p>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</p>

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:	GRB7
Alternative Name:	GRB7 (GRB7 Products)
Background:	<p>Growth factor receptor-bound protein 7 (B47) (Epidermal growth factor receptor GRB-7) (GRB7 adapter protein),FUNCTION: Adapter protein that interacts with the cytoplasmic domain of numerous receptor kinases and modulates down-stream signaling. Promotes activation of down-stream protein kinases, including STAT3, AKT1, MAPK1 and/or MAPK3. Promotes activation of HRAS. Plays a role in signal transduction in response to EGF. Plays a role in the regulation of cell proliferation and cell migration. Plays a role in the assembly and stability of RNA stress granules. Binds to the 5'UTR of target mRNA molecules and represses translation of target mRNA species, when not phosphorylated. Phosphorylation impairs RNA binding and promotes stress granule disassembly during recovery after cellular stress (By similarity). {ECO:0000250, ECO:0000269 PubMed:10893408, ECO:0000269 PubMed:12021278, ECO:0000269 PubMed:12223469, ECO:0000269 PubMed:20622016}.</p>
Molecular Weight:	59.7 kDa
UniProt:	Q14451
Pathways:	EGFR Signaling Pathway , Ribonucleoprotein Complex Subunit Organization

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:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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!</p>
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