

Datasheet for ABIN3090156
BRD7 Protein (AA 1-651) (Strep Tag)[Go to Product page](#)

1 Image

Overview

Quantity:	1 mg
Target:	BRD7
Protein Characteristics:	AA 1-651
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This BRD7 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MGKKHKHKHS DKHLYEEYVE KPLKLVKVG GNEVTELSTG SSGHDSSLFE DKNDHDKHKD RKRKKRKKGE KQIPGEEKGR KRRRVKEDKK KRDRDRVENE AEKDLQCHAP VRDLDPPEKP LTSSLAKQEE VEQTPLQEAL NQLMRQLQRK DPSAFFSFPV TDFIAPGYSM IIKHPMDFST MKEIKNNNDY QSIEELKDNF KLMCTNAMIIY NKPETIYYKA AKKLLHSGMK ILSQERIQSL KQSIDFADL QKTRKQKDGDT DTSQSGEDGG CWQREREDSG DAEAHAFKSP SKENKKKDKD MLEDKFKSNN LEREQEQLDR IVKESGGKLT RRLVNSQCEF ERRKPDGTTT LGLLHPVDPI VGEPGYCPVR LGMTTGRLQS GVNTLQGFKE DKRNKVTPVL YLNYGPYSSY APHYDSTFAN ISKDDSDLIY STYGEDSDLP SDFSIEFLA TCQDYPYVMA DSLLDVLTKG GHSRTLQEME MSLPEDEGHT RTLDTAKEME ITEVEPPGRL DSSTQDRLIA LKAVTNFGVP VEVFDSEAE IFQKKLDETT RLLRELQEAQ NERLSTRPPP NMICLLGPSY REMHLAEQVT NNLKELAAQV TPGDIVSTYG VRKAMGISIP SPVMENNFVD LTEDTEPPK TDVAECGPGG S
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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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 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.

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 in several dilutions and is measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):

1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag

Product Details

capture material. 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:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

Target Details

Target:	BRD7
Alternative Name:	BRD7 (BRD7 Products)
Background:	<p>Bromodomain-containing protein 7 (75 kDa bromodomain protein) (Protein CELTIX-1),FUNCTION: Acts both as coactivator and as corepressor. May play a role in chromatin remodeling. Activator of the Wnt signaling pathway in a DVL1-dependent manner by negatively regulating the GSK3B phosphotransferase activity. Induces dephosphorylation of GSK3B at 'Tyr-216'. Down-regulates TRIM24-mediated activation of transcriptional activation by AR (By similarity). Transcriptional corepressor that down-regulates the expression of target genes. Binds to target promoters, leading to increased histone H3 acetylation at 'Lys-9' (H3K9ac). Binds to the ESR1 promoter. Recruits BRCA1 and POU2F1 to the ESR1 promoter. Coactivator for TP53-mediated activation of transcription of a set of target genes. Required for TP53-mediated cell-cycle arrest in response to oncogene activation. Promotes acetylation of TP53 at 'Lys-382', and thereby promotes efficient recruitment of TP53 to target promoters. Inhibits cell cycle progression from G1 to S phase. {ECO:0000250, ECO:0000269 PubMed:16265664, ECO:0000269 PubMed:16475162, ECO:0000269 PubMed:20215511, ECO:0000269 PubMed:20228809, ECO:0000269 PubMed:20660729}.</p>
Molecular Weight:	74.1 kDa
UniProt:	Q9NPI1

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.
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Application Details

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. If you have a special request, please contact us.
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