Datasheet for ABIN3075688

ZBED1 Protein (AA 1-694) (Strep Tag)

1 Image

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Overview

Quantity:	1 mg
Target:	ZBED1
Protein Characteristics:	AA 1-694
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ZBED1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MENKSLESSQ TDLKLVAHPR AKSKVWKYFG FDTNAEGCIL QWKKIYCRIC MAQIAYSGNT SNLSYHLEKN HPEEFCEFVK SNTEQMREAF ATAFSKLKPE SSQQPGQDAL AVKAGHGYDS KKQQELTAAV LGLICEGLYP ASIVDEPTFK VLLKTADPRY ELPSRKYIST KAIPEKYGAV REVILKELAE ATWCGISTDM WRSENQNRAY VTLAAHFLGL GAPNCLSMGS RCLKTFEVPE ENTAETITRV LYEVFIEWGI SAKVFGATTN YGKDIVKACS LLDVAVHMPC LGHTFNAGIQ QAFQLPKLGA LLSRCRKLVE YFQQSAVAMY MLYEKQKQQN VAHCMLVSNR VSWWGSTLAM LQRLKEQQFV IAGVLVEDSN NHHLMLEASE WATIEGLVEL LQPFKQVAEM LSASRYPTIS MVKPLLHMLL NTTLNIKETD SKELSMAKEV IAKELSKTYQ ETPEIDMFLN VATFLDPRYK RLPFLSAFER QQVENRVVEE AKGLLDKVKD GGYRPAEDKI FPVPEEPPVK KLMRTSTPPP ASVINNMLAE IFCQTGGVED QEEWHAQVVE ELSNFKSQKV LGLNEDPLKW WSDRLALFPL LPKVLQKYWC VTATRVAPER LFGSAANVVS AKRNRLAPAH VDEQVFLYEN ARSGAEAEPE DQDEGEWGLD QEQVFSLGDG VSGGFFGIRD SSFL

	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®):

Product Details

	1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag 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:	ZBED1
Alternative Name:	ZBED1 (ZBED1 Products)
Background:	E3 SUMO-protein ligase ZBED1 (EC 2.3.2.-) (DNA replication-related element-binding factor) (Putative Ac-like transposable element) (Zinc finger BED domain-containing protein 1) (dREF homolog),FUNCTION: Functions as an E3-type small ubiquitin-like modifier (SUMO) ligase which sumoylates CHD3/Mi2-alpha, causing its release from DNA (PubMed:27068747). This results in suppression of CHD3/Mi2-alpha transcription repression, increased recruitment of RNA polymerase II to gene promoters and positive regulation of transcription including H1-5 and ribosomal proteins such as: RPS6, RPL10A, and RPL12 (PubMed:12663651, PubMed:17209048, PubMed:17220279, PubMed:27068747). The resulting increased transcriptional activity drives cell proliferation (PubMed:12663651, PubMed:17220279). Binds to 5'-TGTCG[CT]GA[CT]A-3' consensus sequences in gene promoters of ribosomal proteins (PubMed:12663651, PubMed:17209048, PubMed:17220279, PubMed:27068747). {ECO:0000269|PubMed:12663651, ECO:0000269|PubMed:17209048, ECO:0000269|PubMed:17220279, ECO:0000269|PubMed:27068747}., FUNCTION: (Microbial infection) Binds to human adenovirus gene promoters and contributes to transcriptional repression and virus growth inhibition during early stages of infection. {ECO:0000269|PubMed:25210186}.
Molecular Weight:	78.2 kDa
UniProt:	O96006

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies

Application Details

	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 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. 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)

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