Datasheet for ABIN3136068

ALKBH8 Protein (AA 1-664) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	ALKBH8
Protein Characteristics:	AA 1-664
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ALKBH8 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MNINHKGVLK LTKMEKKFLR KQSKARHVLL KHEGIQAVSY PTQSLVIANG GLGNGVSRKQ LLLTLEKCGP VEALLMPPNK PYAFVIFQTI EESKKAYFTL NGKEIIDDLG QKIFLYLNFV EKAQWKNMGL EALPPGLLVV EEIISSEEEK KLLESVNWTE DTGNQNFQRS LKHRRVKHFG YEFHYESNTV DKDKPLPGGL PEVCSSILEK LLKEGYIKHK PDQLTINQYE PGHGIPAHID THSAFEDEII SLSLGSAIVM DFKHPEGVTV QVMLPRRSLL VMTGESRYLW THGITPRKFD TVQASEQFKG GIITSDIGDL TLSKRGMRTS FTFRKVRRMP CNCSYSSVCD RQRKATPPSL TESSKEALEL EQKHVHQVYN EIASHFSSTR HSPWPRIVEF LKALPSGSIV ADIGCGNGKY LGINKDLYMI GCDRSQNLVD ICRERQFQAL VCDALAVPVR SGSCDACISI AVIHHFATAE RRVEALQELA RLLRPGGQAL IYVWAMEQEY KNQKSKYLRG KRISQGDKDE LNSATSTEEF LVNQTPEGVN EDPALSVNSS SITKEEEYKS RKVPNSELPI HINRTCFHSQ DVLVPWHLKR NPGKDKAIEP SGVAGCPDPS PVFHRYYHVF CDGELEASCQ AVGDVSILQS YYDQGNWCVV LQKV

Product Details

	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).

Product Details

Grade:	custom-made

Target Details

Target:	ALKBH8
Alternative Name:	Alkbh8 (ALKBH8 Products)
Background:	Alkylated DNA repair protein alkB homolog 8 (Probable alpha-ketoglutarate-dependent dioxygenase ABH8) (S-adenosyl-L-methionine-dependent tRNA methyltransferase ABH8) (tRNA (carboxymethyluridine(34)-5-O)-methyltransferase ABH8) (EC 2.1.1.229),FUNCTION: Catalyzes the methylation of 5-carboxymethyl uridine to 5-methylcarboxymethyl uridine at the wobble position of the anticodon loop in tRNA via its methyltransferase domain (PubMed:20123966). Catalyzes the last step in the formation of 5-methylcarboxymethyl uridine at the wobble position of the anticodon loop in target tRNA (PubMed:20123966). Has a preference for tRNA(Arg) and tRNA(Glu), and does not bind tRNA(Lys) (By similarity). Binds tRNA and catalyzes the iron and alpha-ketoglutarate dependent hydroxylation of 5-methylcarboxymethyl uridine at the wobble position of the anticodon loop in tRNA via its dioxygenase domain, giving rise to 5-(S)-methoxycarbonylhydroxymethyluridine, has a preference for tRNA(Gly) (PubMed:20583019). Required for normal survival after DNA damage (By similarity). May inhibit apoptosis and promote cell survival and angiogenesis (By similarity). {ECO:0000250|UniProtKB:Q96BT7, ECO:0000269|PubMed:20123966, ECO:0000269|PubMed:20583019}.
Molecular Weight:	74.8 kDa
UniProt:	Q80Y20

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