Datasheet for ABIN7552019

ALKBH8 Protein (AA 1-664) (His tag)

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Overview

Quantity:	1 mg
Target:	ALKBH8
Protein Characteristics:	AA 1-664
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ALKBH8 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat ALKBH8 Protein expressed in mammalien cells.
Sequence:	MDSNHQSNYK LSKTEKKFLR KQIKAKHTLL RHEGIETVSY ATQSLVVANG GLGNGVSRNQ LLPVLEKCGL VDALLMPPNK PYSFARYRTT EESKRAYVTL NGKEVVDDLG QKITLYLNFV EKVQWKELRP QALPPGLMVV EEIISSEEEK MLLESVDWTE DTDNQNSQKS LKHRRVKHFG YEFHYENNNV DKDKPLSGGL PDICESFLEK WLRKGYIKHK PDQMTINQYE PGQGIPAHID THSAFEDEIV SLSLGSEIVM DFKHPDGIAV PVMLPRRSLL VMTGESRYLW THGITCRKFD TVQASESLKS GIITSDVGDL TLSKRGLRTS FTFRKVRQTP CNCSYPLVCD SQRKETPPSF PESDKEASRL EQEYVHQVYE EIAGHFSSTR HTPWPHIVEF LKALPSGSIV ADIGCGNGKY LGINKELYMI GCDRSQNLVD ICRERQFQAF VCDALAVPVR SGSCDACISI AVIHHFATAE RRVAALQEIV RLLRPGGKAL IYVWAMEQEY NKQKSKYLRG NRNSQGKKEE MNSDTSVQRS LVEQMRDMGS RDSASSVPRI NDSQEGGCNS RQVSNSKLPV HVNRTSFYSQ DVLVPWHLKG NPDKGKPVEP FGPIGSQDPS PVFHRYYHVF REGELEGACR TVSDVRILQS YYDQGNWCVI LQKA

Product Details

	Sequence without tag. The proposed Purification-Tag is based on experiences 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 to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalien cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • 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. If you are not interested in a full length protein, please contact us for individual protein fragments. 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.
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
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, PubMed:20308323, PubMed:31079898). Catalyzes the last step in the formation of 5-methylcarboxymethyl uridine at the wobble position of the anticodon loop in target tRNA (PubMed:20123966, PubMed:20308323). Has a preference for tRNA(Arg) and tRNA(Glu), and does not bind tRNA(Lys)(PubMed:20308323). Binds tRNA and catalyzes the iron and alpha-ketoglutarate dependent hydroxylation of 5-methylcarboxymethyl uridine at the wobble position

Target Details

	of the anticodon loop in tRNA via its dioxygenase domain, giving rise to 5-(S)-methoxycarbonylhydroxymethyluridine, has a preference for tRNA(Gly) (PubMed:21285950). Required for normal survival after DNA damage (PubMed:20308323). May inhibit apoptosis and promote cell survival and angiogenesis (PubMed:19293182). {ECO:0000269|PubMed:19293182, ECO:0000269|PubMed:20123966, ECO:0000269|PubMed:20308323, ECO:0000269|PubMed:21285950, ECO:0000269|PubMed:31079898}.
Molecular Weight:	75.2 kDa
UniProt:	Q96BT7

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.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months