antibodies

Datasheet for ABIN3088858 ALKBH7 Protein (AA 21-221) (His tag)

Image



Overview

010111011	
Quantity:	1 mg
Target:	ALKBH7
Protein Characteristics:	AA 21-221
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ALKBH7 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)
Product Details	
Sequence:	SGPSVLSRLQ DAAVVRPGFL STAEEETLSR ELEPELRRRR YEYDHWDAAI HGFRETEKSR
	WSEASRAILQ RVQAAAFGPG QTLLSSVHVL DLEARGYIKP HVDSIKFCGA TIAGLSLLSP
	SVMRLVHTQE PGEWLELLLE PGSLYILRGS ARYDFSHEIL RDEESFFGER RIPRGRRISV
	ICRSLPEGMG PGESGQPPPA C
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	 Made in Germany - from design to production - by highly experienced protein experts. Human ALKBH7 Protein (raised in E. Coli) purified by multi-step, protein-specific process to ensure crystallization grade.
	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.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN3088858 | 09/11/2023 | Copyright antibodies-online. All rights reserved.

	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.
	In the unlikely event that the protein cannot be expressed or purified we do not charge anything
	(other companies might charge you for any performed steps in the expression process for
	custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression
	experiments or purification optimization).
	When you order this made-to-order protein you will only pay upon receival of the correctly
	folded protein. With no financial risk on your end you can rest assured that our experienced
	protein experts will do everything to make sure that you receive the protein you ordered.
	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.
	The concentration of the protein is calculated using its specific absorption coefficient. We use
	the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in bacterial culture:
	 In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
	 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:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Endotoxin has not been removed. Please contact us if you require endotoxin removal.
Grade:	Crystallography grade
Target Details	
Target:	ALKBH7
Alternative Name:	ALKBH7 (ALKBH7 Products)

Background:	May function as protein hydroxylase, can catalyze auto-hydroxylation at Leu-110 (in vitro), but
	this activity may be due to the absence of the true substrate (PubMed:25122757). Required to
	induce programmed necrosis in response to DNA damage caused by cytotoxic alkylating

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/4 | Product datasheet for ABIN3088858 | 09/11/2023 | Copyright antibodies-online. All rights reserved.

Target Details

agents. Acts by triggering the collapse of mitochondrial membrane potential and loss of
mitochondrial function that leads to energy depletion and cell death (PubMed:23666923).
ALKBH7-mediated necrosis is probably required to prevent the accumulation of cells with DNA
damage (PubMed:23666923). Does not display DNA demethylase activity (PubMed:23666923).
Involved in fatty acid metabolism (By similarity). {ECO:0000250 UniProtKB:Q9D6Z0,
EC0:0000269 PubMed:23666923, EC0:0000269 PubMed:25122757}.
23.4 kDa Including tag.
Q9BT30
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.
In cases in which it is highly likely that the recombinant protein with the default tag will be
insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to
increase solubility. We will discuss all possible options with you in detail to assure that you
receive your protein of interest.
For Research Use only
Liquid
100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Avoid repeated freeze-thaw cycles.
Avoid repeated freeze-thaw cycles.



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

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 4/4 | Product datasheet for ABIN3088858 | 09/11/2023 | Copyright antibodies-online. All rights reserved.