.-online.com antibodies

# Datasheet for ABIN3136830 EGLN1 Protein (AA 2-400) (His tag)

Image



#### Overview

Quantity:	1 mg	
Target:	EGLN1	
Protein Characteristics:	AA 2-400	
Origin:	Mouse	
Source:	Insect Cells	
Protein Type:	Recombinant	
Purification tag / Conjugate:	This EGLN1 protein is labelled with His tag.	
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)	

#### Product Details

Sequence:	ASDSGGPGVL SASERDRQYC ELCGKMENLL RCGRCRSSFY CCKEHQRQDW KKHKLVCQGG		
	EAPRAQPAPA QPRVAPPPGG APGAARAGGA ARRGDSAAAS RVPGPEDAAQ ARSGPGPAEP		
	GSEDPPLSRS PGPERASLCP AGGGPGEALS PGGGLRPNGQ TKPLPALKLA LEYIVPCMNK		
	HGICVVDDFL GRETGQQIGD EVRALHDTGK FTDGQLVSQK SDSSKDIRGD QITWIEGKEP		
	GCETIGLLMS SMDDLIRHCS GKLGNYRING RTKAMVACYP GNGTGYVRHV DNPNGDGRCV		
	TCIYYLNKDW DAKVSGGILR IFPEGKAQFA DIEPKFDRLL FFWSDRRNPH EVQPAYATRY		
	AITVWYFDAD ERARAKVKYL TGEKGVRVEL KPNSVSKDV		
Sequence without tag. Tag location is at the discretion of the manufacturer. If $\mathbf{y}$			
	special request, please contact us.		
Characteristics:	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Mouse Egln1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.</li> </ul>		

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 ABIN3136830 | 09/11/2023 | Copyright antibodies-online. All rights reserved.

	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.	
	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 baculovirus infected SF9 insect cells:	
	1. 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. 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:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.	
Sterility:	0.22 µm filtered	
·		
Endotoxin Level:	Protein is endotoxin free.	
Grade:	Crystallography grade	
T 15 1 1		
Target Details		
Target:	EGLN1	
Alternative Name:	EgIn1 (EGLN1 Products)	

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 ABIN3136830 | 09/11/2023 | Copyright antibodies-online. All rights reserved.

## Target Details

Background:	Cellular oxygen sensor that catalyzes, under normoxic conditions, the post-translational
	formation of 4-hydroxyproline in hypoxia-inducible factor (HIF) alpha proteins. Hydroxylates a
	specific proline found in each of the oxygen-dependent degradation (ODD) domains (N-terminal,
	NODD, and C-terminal, CODD) of HIF1A. Also hydroxylates HIF2A. Has a preference for the
	CODD site for both HIF1A and HIF1B. Hydroxylated HIFs are then targeted for proteasomal
	degradation via the von Hippel-Lindau ubiquitination complex. Under hypoxic conditions, the
	hydroxylation reaction is attenuated allowing HIFs to escape degradation resulting in their
	translocation to the nucleus, heterodimerization with HIF1B, and increased expression of
	hypoxy-inducible genes. EGLN1 is the most important isozyme under normoxia and, through
	regulating the stability of HIF1, involved in various hypoxia-influenced processes such as
	angiogenesis in retinal and cardiac functionality. Target proteins are preferentially recognized
	via a LXXLAP motif. {ECO:0000269 PubMed:18096761, ECO:0000269 PubMed:18500250,
	EC0:0000269 PubMed:21435465}.
Molecular Weight:	43.9 kDa Including tag.
UniProt:	Q91YE3
Pathways:	cAMP Metabolic Process, Warburg Effect

## 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 gurantee though.
Comment:	Protein has not been tested for activity yet. 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.
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C

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 3/4 | Product datasheet for ABIN3136830 | 09/11/2023 | Copyright antibodies-online. All rights reserved.

1.1		
	lond	lina
	land	

 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

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 ABIN3136830 | 09/11/2023 | Copyright antibodies-online. All rights reserved.