.-online.com antibodies

Datasheet for ABIN3133878 DDIT3 Protein (AA 1-168) (His tag)

Image



Overview

1 mg
DDIT3
AA 1-168
Mouse
Escherichia coli (E. coli)
Recombinant
This DDIT3 protein is labelled with His tag.
Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)
MAAESLPFTL ETVSSWELEA WYEDLQEVLS SDEIGGTYIS SPGNEEEESK TFTTLDPASL
AWLTEEPGPT EVTRTSQSPR SPDSSQSSMA QEEEEEEQGR TRKRKQSGQC PARPGKQRMK
EKEQENERKV AQLAEENERL KQEIERLTRE VETTRRALID RMVSLHQA
Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
special request, please contact us.
 Made in Germany - from design to production - by highly experienced protein experts. Mouse Ddit3 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
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 ABIN3133878 | 09/11/2023 | Copyright antibodies-online. All rights reserved.

	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
Farget Details	
Farget:	DDIT3
Alternative Name:	Ddit3 (DDIT3 Products)
Background:	Multifunctional transcription factor in ER stress response. Plays an essential role in the
	response to a wide variety of cell stresses and induces cell cycle arrest and apoptosis in
	response to ER stress. Plays a dual role both as an inhibitor of CCAAT/enhancer-binding protei

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 ABIN3133878 | 09/11/2023 | Copyright antibodies-online. All rights reserved.

	C/EBP-induced transcription: dimerizes with members of the C/EBP family, impairs their
	association with C/EBP binding sites in the promoter regions, and inhibits the expression of
	C/EBP regulated genes. Positively regulates the transcription of TRIB3, IL6, IL8, IL23,
	TNFRSF10B/DR5, PPP1R15A/GADD34, BBC3/PUMA, BCL2L11/BIM and ER01L. Negatively
	regulates, expression of BCL2 and MYOD1, ATF4-dependent transcriptional activation of
	asparagine synthetase (ASNS), CEBPA-dependent transcriptional activation of hepcidin (HAMP)
	and CEBPB-mediated expression of peroxisome proliferator-activated receptor gamma
	(PPARG). Inhibits the canonical Wnt signaling pathway by binding to TCF7L2/TCF4, impairing
	its DNA-binding properties and repressing its transcriptional activity. Plays a regulatory role in
	the inflammatory response through the induction of caspase-11 (CASP4/CASP11) which
	induces the activation of caspase-1 (CASP1) and both these caspases increase the activation
	of pro-IL1B to mature IL1B which is involved in the inflammatory response. Acts as a major
	regulator of postnatal neovascularization through regulation of endothelial nitric oxide synthase
	(NOS3)-related signaling. {ECO:0000269 PubMed:12706815, ECO:0000269 PubMed:14684614,
	ECO:0000269 PubMed:1547942, ECO:0000269 PubMed:15601821,
	ECO:0000269 PubMed:15775988, ECO:0000269 PubMed:16670335,
	ECO:0000269 PubMed:19752026, ECO:0000269 PubMed:19919955,
	ECO:0000269 PubMed:21159964, ECO:0000269 PubMed:22242125,
	ECO:0000269 PubMed:22265908}.
Molecular Weight:	20.1 kDa Including tag.
UniProt:	P35639
Pathways:	Regulation of Muscle Cell Differentiation, ER-Nucleus Signaling, Skeletal Muscle Fiber
	Development, Cell RedoxHomeostasis
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

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 ABIN3133878 | 09/11/2023 | Copyright antibodies-online. All rights reserved.

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
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