

Datasheet for ABIN7563183 DDIT3 Protein (AA 1-168) (His tag)



Overview Quantity: 1 mg DDIT3 Target: Protein Characteristics: AA 1-168 Origin: Mouse HEK-293 Cells Source: Protein Type: Recombinant Purification tag / Conjugate: This DDIT3 protein is labelled with His tag. **Product Details** Custom-made recombinant Ddit3 Protein expressed in mammalian cells. Purpose: Sequence: MAAESLPFTL ETVSSWELEA WYEDLQEVLS SDEIGGTYIS SPGNEEEESK TFTTLDPASL AWLTEEPGPT EVTRTSQSPR SPDSSQSSMA QEEEEEEQGR TRKRKQSGQC PARPGKQRMK EKEQENERKV AQLAEENERL KQEIERLTRE VETTRRALID RMVSLHQA 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. Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer. Characteristics: Key Benefits: Made to order protein - from design to production - by highly experienced protein experts. Protein expressed in mammalian cells and purified in one-step affinity chromatography

The optimized expression system ensures reliability for intracellular, secreted and

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	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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	DDIT3						
Alternative Name:	Ddit3 (DDIT3 Products)						
Background:	DNA damage-inducible transcript 3 protein (DDIT-3) (C/EBP zeta) (C/EBP-homologous protein)						
	(CHOP) (C/EBP-homologous protein 10) (CHOP-10) (CCAAT/enhancer-binding protein						
	homologous protein) (Growth arrest and DNA-damage-inducible protein GADD153),FUNCTION:						
	Multifunctional transcription factor in endoplasmic reticulum (ER) stress response						
	(PubMed:15601821, PubMed:19752026). 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						
	(PubMed:15601821, PubMed:19752026). Plays a dual role both as an inhibitor of						
	CCAAT/enhancer-binding protein (C/EBP) function and as an activator of other genes						
	(PubMed:1547942). Acts as a dominant-negative regulator of 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						
	(PubMed:1547942). Positively regulates the transcription of TRIB3, IL6, IL8, IL23,						
	TNFRSF10B/DR5, PPP1R15A/GADD34, BBC3/PUMA, BCL2L11/BIM and ER01L						
	(PubMed:12706815, PubMed:15775988, PubMed:21159964, PubMed:14684614,						
	PubMed:19919955). 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-						

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	activated receptor gamma (PPARG) (By similarity). Together with ATF4, mediates ER-mediated
	cell death by promoting expression of genes involved in cellular amino acid metabolic
	processes, mRNA translation and the unfolded protein response (UPR) in response to ER stress
	(PubMed:22242125, PubMed:23624402). Inhibits the canonical Wnt signaling pathway by
	binding to TCF7L2/TCF4, impairing its DNA-binding properties and repressing its transcriptional
	activity (By similarity). 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 (PubMed:16670335). Acts as a major regulator of postnatal
	neovascularization through regulation of endothelial nitric oxide synthase (NOS3)-related
	signaling (PubMed:22265908). {ECO:0000250 UniProtKB:P35638,
	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, ECO:0000269 PubMed:23624402}.
Molecular Weight:	19.2 kDa
UniProt:	P35639
Pathways:	Regulation of Muscle Cell Differentiation, ER-Nucleus Signaling, Skeletal Muscle Fiber
	Development, Cell RedoxHomeostasis

Application Details

Handling Advice:

Application Notes:	We expect the protein to work for functional studies. 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.

Storage:	-8	0°C						

Avoid repeated freeze-thaw cycles.

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Handling	
Storage Comment:	Store at -80°C.
Expiry Date:	12 months

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