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Datasheet for ABIN3137086 DDIT4 Protein (AA 1-229) (His tag)

Image



Overview

Quantity:	1 mg
Target:	DDIT4
Protein Characteristics:	AA 1-229
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DDIT4 protein is labelled with His tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB), Crystallization (Crys)

Product Details

MPSLWDRFSS SSSSSSSSRT PAADRPPRSA WGSAAREEGL DRCASLESSD CESLDSSNSG
FGPEEDSSYL DGVSLPDFEL LSDPEDEHLC ANLMQLLQES LSQARLGSRR PARLLMPSQL
VSQVGKELLR LAYSEPCGLR GALLDVCVEQ GKSCHSVAQL ALDPSLVPTF QLTLVLRLDS
RLWPKIQGLL SSANSSLVPG YSQSLTLSTG FRVIKKKLYS SEQLLIEEC
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 Ddit4 Protein (raised in Insect Cells) 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.

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	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:
	 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
Target Details	
Target:	DDIT4
Alternative Name:	Ddit4 (DDIT4 Products)

Background:Regulates cell growth, proliferation and survival via inhibition of the activity of the mammalian
target of rapamycin complex 1 (mTORC1). Inhibition of mTORC1 is mediated by a pathway that
involves DDIT4/REDD1, AKT1, the TSC1-TSC2 complex and the GTPase RHEB. Plays an

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	important role in responses to cellular energy levels and cellular stress, including responses to
	hypoxia and DNA damage. Regulates p53/TP53-mediated apoptosis in response to DNA
	damage via its effect on mTORC1 activity. Its role in the response to hypoxia depends on the
	cell type, it mediates mTORC1 inhibition in fibroblasts and thymocytes, but not in hepatocytes.
	Inhibits neuronal differentiation and neurite outgrowth mediated by NGF via its effect on
	mTORC1 activity. Required for normal neuron migration during embryonic brain development.
	Plays a role in neuronal cell death. Required for mTORC1-mediated defense against viral protein
	synthesis and virus replication. {ECO:0000269 PubMed:15545625,
	ECO:0000269 PubMed:15988001, ECO:0000269 PubMed:20176937,
	ECO:0000269 PubMed:21383064, ECO:0000269 PubMed:21896779,
	ECO:0000269 PubMed:21909097}.
Molecular Weight:	25.8 kDa Including tag.
UniProt:	Q9D3F7
Pathways:	Neurotrophin Signaling Pathway, Regulation of Carbohydrate Metabolic Process
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
Storage Comment:	Store at -80°C.

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Handling
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Expiry Date:

Unlimited (if stored properly)

Images



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

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