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## Datasheet for ABIN3137536 HEY1 Protein (AA 1-299) (His tag)

Image



## Overview

Quantity:	1 mg
Target:	HEY1
Protein Characteristics:	AA 1-299
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This HEY1 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)
Product Details	
Sequence:	MKRAHPDYSS SDSELDETIE VEKESADENG NLSSALCSMS PTTSSQVLAR KRRRGIIEKR
	RRDRINNSLS ELRRLVPSAF EKQGSAKLEK AEILQMTVDH LKMLHTAGGK GYFDAHALAM
	DYRSLGFREC LAEVARYLSI IEGLDASDPL LVRLVSHLNN YASQREAASG AHGGLGHIPW
	GSAFGHHPHI AHPLLLPQNG HGNAGTAASP TEPHHQGRLA SAHPEAPALR APPSGGLGPV
	LPVVTSASKL SPPLLSSVAS LSAFPFSFSS FHLLSPSTPT QAANLGKPYR PWGTEIGAF
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Mouse Hey1 Protein (raised in E. Coli) purified by multi-step, protein-specific process to ensure crystallization grade.</li> <li>State-of-the-art algorithm used for plasmid design (Gene synthesis).</li> </ul>

This protein is a made to order protein and will be made for the first time for your order. Our

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	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 bacterial culture:
	<ol> <li>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.</li> </ol>
	<ol> <li>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.</li> </ol>
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

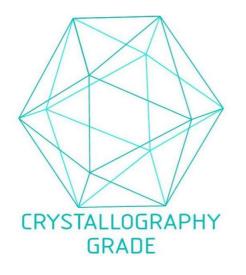
## Target Details

Target:	HEY1
Alternative Name:	Hey1 (HEY1 Products)
Background:	Transcriptional repressor which binds preferentially to the canonical E box sequence 5'-
	CACGTG-3'. Downstream effector of Notch signaling required for cardiovascular development.

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	Specifically required for the Notch-induced endocardial epithelial to mesenchymal transition,
	which is itself criticial for cardiac valve and septum development. May be required in
	conjunction with HEY2 to specify arterial cell fate or identity. Promotes maintenance of
	neuronal precursor cells and glial versus neuronal fate specification. Represses transcription by
	the cardiac transcriptional activators GATA4 and GATA6 and by the neuronal bHLH factors
	ASCL1/MASH1 and NEUROD4/MATH3. {ECO:0000269 PubMed:11095750,
	EC0:0000269 PubMed:11486045, EC0:0000269 PubMed:12947105,
	EC0:0000269 PubMed:15107403, EC0:0000269 PubMed:15680351,
	ECO:0000269 PubMed:16199874, ECO:0000269 PubMed:17259303,
	ECO:0000269 PubMed:17303760}.
Molecular Weight:	33.0 kDa Including tag.
UniProt:	Q9WV93
Pathways:	Tube Formation
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.
Expiry Date:	Unlimited (if stored properly)

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

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