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Datasheet for ABIN7563911 HIF1A Protein (AA 1-836) (His tag)

3 Images



Overview

Quantity:	1 mg
Target:	HIF1A
Protein Characteristics:	AA 1-836
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This HIF1A protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Hif1a Protein expressed in mammalian cells.
Sequence:	MEGAGGENEK KKMSSERRKE KSRDAARSRR SKESEVFYEL AHQLPLPHNV SSHLDKASVM
	RLTISYLRVR KLLDAGGLDS EDEMKAQMDC FYLKALDGFV MVLTDDGDMV YISDNVNKYM
	GLTQFELTGH SVFDFTHPCD HEEMREMLTH RNGPVRKGKE LNTQRSFFLR MKCTLTSRGR
	TMNIKSATWK VLHCTGHIHV YDTNSNQPQC GYKKPPMTCL VLICEPIPHP SNIEIPLDSK
	TFLSRHSLDM KFSYCDERIT ELMGYEPEEL LGRSIYEYYH ALDSDHLTKT HHDMFTKGQV
	TTGQYRMLAK RGGYVWVETQ ATVIYNTKNS QPQCIVCVNY VVSGIIQHDL IFSLQQTESV
	LKPVESSDMK MTQLFTKVES EDTSCLFDKL KKEPDALTLL APAAGDTIIS LDFGSDDTET
	EDQQLEDVPL YNDVMFPSSN EKLNINLAMS PLPSSETPKP LRSSADPALN QEVALKLESS
	PESLGLSFTM PQIQDQPASP SDGSTRQSSP ERLLQENVNT PNFSQPNSPS EYCFDVDSDM
	VNVFKLELVE KLFAEDTEAK NPFSTQDTDL DLEMLAPYIP MDDDFQLRSF DQLSPLESNS
	PSPPSMSTVT GFQQTQLQKP TITATATTTA TTDESKTETK DNKEDIKILI ASPSSTQVPQ
	ETTTAKASAY SGTHSRTASP DRAGKRVIEQ TDKAHPRSLN LSATLNQRNT VPEEELNPKT

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	IASQNAQRKR KMEHDGSLFQ AAGIGTLLQQ PGDCAPTMSL SWKRVKGFIS SEQNGTEQKT
	IILIPSDLAC RLLGQSMDES GLPQLTSYDC EVNAPIQGSR NLLQGEELLR ALDQVN 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
	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 proteing 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:	HIF1A
Alternative Name:	Hif1a (HIF1A Products)
Background:	Hypoxia-inducible factor 1-alpha (HIF-1-alpha) (HIF1-alpha) (ARNT-interacting
	protein),FUNCTION: Functions as a master transcriptional regulator of the adaptive response to
	hypoxia (PubMed:15225651, PubMed:17981124, PubMed:22009797). Under hypoxic
	conditions, activates the transcription of over 40 genes, including erythropoietin, glucose
	transporters, glycolytic enzymes, vascular endothelial growth factor, HILPDA, and other genes
	whose protein products increase oxygen delivery or facilitate metabolic adaptation to hypoxia

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	(PubMed:15225651, PubMed:17981124, PubMed:22009797). Plays an essential role in
	embryonic vascularization, tumor angiogenesis and pathophysiology of ischemic disease
	(PubMed:22009797). Heterodimerizes with ARNT, heterodimer binds to core DNA sequence 5'-
	TACGTG-3' within the hypoxia response element (HRE) of target gene promoters
	(PubMed:26245371). Activation requires recruitment of transcriptional coactivators such as
	CREBBP and EP300. Activity is enhanced by interaction with NCOA1 and/or NCOA2. Interaction
	with redox regulatory protein APEX1 seems to activate CTAD and potentiates activation by
	NCOA1 and CREBBP. Involved in the axonal distribution and transport of mitochondria in
	neurons during hypoxia (By similarity). {ECO:0000250 UniProtKB:Q16665,
	ECO:0000269 PubMed:15225651, ECO:0000269 PubMed:17981124,
	ECO:0000269 PubMed:22009797, ECO:0000269 PubMed:26245371}.
Molecular Weight:	93.5 kDa
UniProt:	Q61221
Pathways:	Positive Regulation of Peptide Hormone Secretion, Regulation of Hormone Metabolic Process,
	Regulation of Hormone Biosynthetic Process, Cellular Response to Molecule of Bacterial Origin,
	Carbohydrate Homeostasis, Transition Metal Ion Homeostasis, Tube Formation, Regulation of
	Carbohydrate Metabolic Process, Signaling Events mediated by VEGFR1 and VEGFR2, VEGFR1
	Specific Signals, Warburg Effect
Application Details	
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.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months

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Protein Structure

Image 1. AlphaFold protein structure predicition of Mouse Recombinant Hif1a Protein, UniprotID Q61221

Protein Structure

Image 2. AlphaFold protein structure predicition of Mouse Recombinant Hif1a Protein, UniprotID Q61221





Protein Structure

Image 3. AlphaFold protein structure predicition of Mouse Recombinant Hif1a Protein, UniprotID Q61221

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