antibodies .- online.com





HIF3A Protein (AA 1-662) (His tag)



Image



Go to Product page

Overview

Quantity:	1 mg
Target:	HIF3A
Protein Characteristics:	AA 1-662
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This HIF3A protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:

MDWDQDRSNT ELRKEKSRDA ARSRRSQETE VLYQLAHTLP FARGVSAHLD KASIMRLTIS
YLRMHRLCAA GEWNQVEKGG EPLDACYLKA LEGFVMVLTA EGDMAYLSEN VSKHLGLSQL
ELIGHSIFDF IHPCDQEELQ DALTPRPNLS KKKLEAPTER HFSLRMKSTL TSRGRTLNLK
AATWKVLHCS GHMRAYKPPA QTSPAGSPRS EPPLQCLVLI CEAIPHPASL EPPLGRGAFL
SRHSLDMKFT YCDERIAEVA GYSPDDLIGC SAYEYIHALD SDAVSRSIHT LLSKGQAVTG
QYRFLARTGG YLWTQTQATV VSGGRGPQSE SIICVHFLIS RVEETGVVLS LEQTEQHTRR
PPRLSASSQK GIPGNSVDSP APRILAFLHP PALSEASLAA DPRRFCSPDL RRLMAPILDG
PPPAATPSTP QATRRPQSPL PADLPDKLTV GLENAHRLST AQKNKTVETD LDIAQDPDTL
DLEMLAPYIS MDDDFQLNSS EQLPKVHRRP PRVARRPRAR SFHGLSPPIP EPSLLPRWGS
DPRLNCSSPS RGDRPTASLM PGTRKRALAQ SSEDKGLELL ETKPPKRSPR LEPGSFLLPP
LSLSFLLQGR QLPGNQQDPR APLVHSHEPL GLAPSLLSLC QHEETVQPRN RFPPAAGLGQ TH

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a

Product Details special request, please contact us. Characteristics: · Made in Germany - from design to production - by highly experienced protein experts. · Mouse Hif3a 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. 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: 1. 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. >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot. Purity:

0.22 µm filtered

Protein is endotoxin free.

Crystallography grade

Sterility:

Grade:

Endotoxin Level:

Target Details

Target:	HIF3A
Alternative Name:	Hif3a (HIF3A Products)
Background:	Acts as a transcriptional regulator in adaptive response to low oxygen tension. Acts as a regulator of hypoxia-inducible gene expression (PubMed:9840812, PubMed:11734856, PubMed:21546903). Plays a role in the development of the cardiorespiratory system (PubMed:18070924). (ECO:0000269 PubMed:11734856, ECO:0000269 PubMed:18070924, ECO:0000269 PubMed:21546903, ECO:0000269 PubMed:9840812}-, Isoform 1: Acts as positive regulator of hypoxia-inducible gene expression. Associates to core DNA sequence 5'-TACGTG-3' within the hypoxia response element (HRE) of target gene promoters in a ARNT-dependent manner, and hence also participates in the transcriptional activation of reporter genes driven by HRE (PubMed:9840812). (ECO:0000269 PubMed:9840812}-, Isoform 2: Attenuates the ability of transcription factor HIF1A, EPAS1 and the HIF1A-ARNT complex to bind to hypoxia-responsive elements (HRE) located within the enhancer/promoter of hypoxia-inducible target genes and hence inhibits HRE-driven transcriptional activation. Functions as an inhibitor of angiogenesis i hypoxic cells of the cornea. May act as a tumor suppressor (PubMed:11734856). May also be involved in apoptosis (PubMed:21546903)-, Isoform 3: Attenuates the ability of transcription factor HIF1A, EPAS1 and the HIF1A-ARNT complex to bind to hypoxia-responsive elements (HRE) located within the enhancer/promoter of hypoxia-inducible target genes and hence inhibits HRE-driven transcriptional activation (PubMed:18070924). Plays also a role in the development of the lung and heart during embryonic and neonatal stages (PubMed:18070924). (ECO:0000269 PubMed:18070924).
Molecular Weight:	74.0 kDa Including tag.
UniProt:	Q0VBL6
Pathways:	Warburg Effect
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

Application Details

	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)

Images

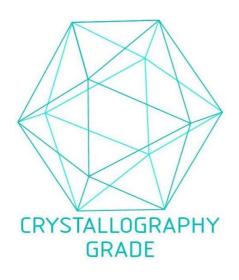


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process