

Datasheet for ABIN7563622  
**HIF3A Protein (AA 1-662) (His tag)**



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## Overview

Quantity:	1 mg
Target:	HIF3A
Protein Characteristics:	AA 1-662
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This HIF3A protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Purpose:	Custom-made recombinat Hif3a Protein expressed in mammalien cells.
Sequence:	<p>MDWDQDRSNT ELRKEKSRDA ARSRRSQETE VLYQLAHTLP FARGVSAHLD KASIMRLTIS          YLRMHRLCAA GEWNQVEKGG EPLDACYLKA LEGFVMVLT A EGD MAYLSEN 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 SFHGLSPPIIP EPSLLPRWGS          DPRLNCSSPS RGD RPTASLM PGTRKRALAQ SSEDKGLELL ETKPPKRSPR LEPGSFLLPP          LLSLFLQGR QLPGNQQDPR APLVHSHEPL GLAPSLLSLC QHEETVQPRN RFPAAAGLGQ TH</p>

**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.**

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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 proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

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Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

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Grade:

custom-made

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Target Details

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Target:

HIF3A

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Alternative Name:

Hif3a ([HIF3A Products](#))

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Background:

Hypoxia-inducible factor 3-alpha (HIF-3-alpha) (HIF3-alpha) (Basic-helix-loop-helix-PAS protein MOP7) (HIF3-alpha-1) (Inhibitory PAS domain protein) (IPAS) (Member of PAS protein 7) (Neonatal and embryonic PAS protein),FUNCTION: 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}., FUNCTION: [Isoform 1]: Acts as a 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

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## Target Details

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a ARNT-dependent manner, and hence also participates in the transcriptional activation of reporter genes driven by HRE (PubMed:9840812). {ECO:0000269|PubMed:9840812},  
FUNCTION: [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 in hypoxic cells of the cornea. May act as a tumor suppressor (PubMed:11734856). May also be involved in apoptosis (PubMed:21546903). {ECO:0000269|PubMed:11734856, ECO:0000269|PubMed:21546903},  
FUNCTION: [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). Also plays a role in the development of the lung and heart during embryonic and neonatal stages (PubMed:18070924).  
{ECO:0000269|PubMed:18070924}.

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Molecular Weight: 73.0 kDa

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UniProt: [Q0VBL6](#)

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Pathways: [Warburg Effect](#)

## Application Details

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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 guarantee though.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months