Datasheet for ABIN7554097

HIF3A Protein (AA 1-669) (His tag)

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Overview

Quantity:	1 mg
Target:	HIF3A
Protein Characteristics:	AA 1-669
Origin:	Human
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:	MALGLQRARS TTELRKEKSR DAARSRRSQE TEVLYQLAHT LPFARGVSAH LDKASIMRLT ISYLRMHRLC AAGEWNQVGA GGEPLDACYL KALEGFVMVL TAEGDMAYLS ENVSKHLGLS QLELIGHSIF DFIHPCDQEE LQDALTPQQT LSRRKVEAPT ERCFSLRMKS TLTSRGRTLN LKAATWKVLN CSGHMRAYKP PAQTSPAGSP DSEPPLQCLV LICEAIPHPG SLEPPLGRGA FLSRHSLDMK FTYCDDRIAE VAGYSPDDLI GCSAYEYIHA LDSDAVSKSI HTLLSKGQAV TGQYRFLARS GGYLWTQTQA TVVSGGRGPQ SESIVCVHFL ISQVEETGVV LSLEQTEQHS RRPIQRGAPS QKDTPNPGDS LDTPGPRILA FLHPPSLSEA ALAADPRRFC SPDLRRLLGP ILDGASVAAT PSTPLATRHP QSPLSADLPD ELPVGTENVH RLFTSGKDTE AVETDLDIAQ DADALDLEML APYISMDDDF QLNASEQLPR AYHRPLGAVP RPRARSFHGL SPPALEPSLL PRWGSDPRLS CSSPSRGDPS ASSPMAGARK RTLAQSSEDE DEGVELLGVR PPKRSPSPEH ENFLLFPLSL SFLLTGGPAP GSLQDPSTPL LNLNEPLGLG PSLLSPYSDE DTTQPGGPFQ

Product Details

	PRAGSAQAD **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.**
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalien 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.
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	HIF3A
Alternative Name:	HIF3A (HIF3A Products)
Background:	Hypoxia-inducible factor 3-alpha (HIF-3-alpha) (HIF3-alpha) (Basic-helix-loop-helix-PAS protein MOP7) (Class E basic helix-loop-helix protein 17) (bHLHe17) (HIF3-alpha-1) (Inhibitory PAS domain protein) (IPAS) (Member of PAS protein 7) (PAS domain-containing protein 7),FUNCTION: Acts as a transcriptional regulator in adaptive response to low oxygen tension. Acts as a regulator of hypoxia-inducible gene expression (PubMed:11573933, PubMed:16126907, PubMed:19694616, PubMed:20416395, PubMed:21069422). Functions as an inhibitor of angiogenesis in hypoxic cells of the cornea. Plays a role in the development of the cardiorespiratory system. May also be involved in apoptosis (By similarity). {ECO:0000250|UniProtKB:Q0VBL6, ECO:0000269|PubMed:11573933, ECO:0000269|PubMed:16126907, ECO:0000269|PubMed:19694616,

Target Details

	ECO:0000269|PubMed:20416395, ECO:0000269|PubMed:21069422}., FUNCTION: [Isoform 2]: Attenuates the ability of transcription factor HIF1A to bind to hypoxia-responsive elements (HRE) located within the enhancer/promoter of hypoxia-inducible target genes and hence inhibits HRE-driven transcriptional activation. Also inhibits hypoxia-inducible ARNT-mediated gene expression. {ECO:0000269|PubMed:11573933}., FUNCTION: [Isoform 3]: Attenuates the ability of transcription factor HIF1A to bind to hypoxia-responsive elements (HRE) located within the enhancer/promoter of hypoxia-inducible target genes and hence inhibits HRE-driven transcriptional activation. {ECO:0000269|PubMed:19694616, ECO:0000269|PubMed:20416395, ECO:0000269|PubMed:21069422}., FUNCTION: [Isoform 4]: Attenuates the ability of transcription factor HIF1A and EPAS1/HIF2A 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:16126907, PubMed:17998805, PubMed:19694616, PubMed:20416395). May act as a tumor suppressor and inhibits malignant cell transformation (PubMed:17998805). {ECO:0000269|PubMed:16126907, ECO:0000269|PubMed:17998805, ECO:0000269|PubMed:19694616, ECO:0000269|PubMed:20416395}., FUNCTION: [Isoform 5]: Attenuates the ability of transcription factor HIF1A to bind to hypoxia-responsive elements (HRE) located within the enhancer/promoter of hypoxia-inducible target genes and hence inhibits HRE-driven transcriptional activation. {ECO:0000269|PubMed:21069422}.
Molecular Weight:	72.4 kDa
UniProt:	Q9Y2N7
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 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.

Handling

Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months