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Datasheet for ABIN1306618

## HIF1A Protein (AA 1-735) (GST tag)

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### Overview

Quantity:	10 µg
Target:	HIF1A
Protein Characteristics:	AA 1-735
Origin:	Human
Source:	Wheat germ
Protein Type:	Recombinant
Purification tag / Conjugate:	This HIF1A protein is labelled with GST tag.
Application:	Western Blotting (WB), ELISA, Affinity Purification (AP), Antibody Array (AA)

### Product Details

Purpose:	HIF1A (Human) Recombinant Protein (P01)
Sequence:	MEGAGGANDK KKISSERTKE KSRDAARSRR SKSESEVFYEL AHQLPLPHNV SSHLDKASVM RLTISYLRVR KLLDAGDLDI EDDMKAQMNC FYLKALDGFV MVLTDGDMI YISDNV NKYM GLTQFELTGH SVDFTHPCD HEEMREMLTH RNGLVKKGKE QNTQRSFFLR MKCTLT SRGR TMNIKSATWK VLHCTGHIHV YDTNSNQPC GYKKPPMTCL VLICEPIPHP SNIEIPLDSK TFLSRHSLDM KFSYCDERIT ELMGYEPEEL LGRSIY EYYH ALDSH LTKT HHDMFTKGQV TTGQYRMLAK RGGYVWVETQ ATVIYNTKNS QPQCIVCVNY VVSGIIQHDL IFSLQQTECV LKPVESSDMK MTQLFTKVES EDTSSLFDKL KKEPDALTLL APAAGDTIIS LDFGSNDTET DDQQL EEVPL YNDVMLPSPN EKLQNINLAM SPLPTAETPK PLRSSADPAL NQEVALKLEP NPESLELSFT MPQIQDQTPS PSDGSTRQSS PEPNSPSEYC FYVDSDMVNE FKLELVEKLF AEDTEAKNPF STQD TDLLE MLAPYIPMDD DFQLRSFDQL SPLESSSASP ESASPQSTVT VFQQTQIQEP TANATTTTAT TDELKTVTKD RMEDIKILIA SPSPTHIHKE TTSATSSPYR

## Product Details

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DTQSRTASPN RAGKGVIEQT EKSHPRSPNV LSVALSQRTT VPEEELNPKI LALQNAQRKR  
KMEHDGSLFQ AVGII

Characteristics: Human HIF1A full-length ORF ( NP\_851397.1, 1 a.a. - 735 a.a.) recombinant protein with GST-tag at N-terminal.

Purification: in vitro wheat germ expression system

## Target Details

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Target: HIF1A

Alternative Name: HIF1A ([HIF1A Products](#))

Background: Full Gene Name: hypoxia inducible factor 1, alpha subunit (basic helix-loop-helix transcription factor)

Synonyms: HIF-1alpha,HIF1,HIF1-ALPHA,MOP1,PASD8,bHLHe78

Gene ID: 3091

NCBI Accession: [NM\\_181054](#)

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

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Application Notes: Optimal working dilution should be determined by the investigator.

Comment: Preparation method: in vitro, wheat germ expression system  
Product Quality tested by: 12.5% SDS-PAGE Stained with Coomassie Blue.

Restrictions: For Research Use only

## Handling

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Buffer: 50 mM Tris-HCl, 10 mM reduced Glutathione, pH =8.0 in the elution buffer.

Handling Advice: Aliquot to avoid repeated freezing and thawing.

Storage: -80 °C

## Handling

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Storage Comment: Best use within three months from the date of receipt of this protein.

## Publications

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Product cited in: Vadivel, Alphonse, Etches, van Haaften, Collins, O'Reilly, Eaton, Thébaud: "Hypoxia-inducible factors promote alveolar development and regeneration." in: **American journal of respiratory cell and molecular biology**, Vol. 50, Issue 1, pp. 96-105, (2014) ([PubMed](#)).

Yang, Li, Yin, Huang, Sun, Li: "A new method to assay hypoxia-inducible factor-1 based on small molecule binding DNA." in: **Analytica chimica acta**, Vol. 838, pp. 31-6, (2014) ([PubMed](#)).

Yang, Wang, Humphries, Hogan, O'Shea, Moynagh: "The E3 ubiquitin ligase Pellino3 protects against obesity-induced inflammation and insulin resistance." in: **Immunity**, Vol. 41, Issue 6, pp. 973-87, (2014) ([PubMed](#)).

## Images

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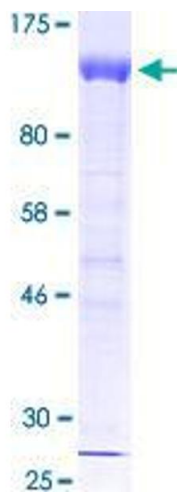


Image 1.