

# Recombinant Full Length Human HIF1A Protein, GST-tagged

**Cat. No.** HIF1A-232HF    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Human HIF1A full-length ORF ( NP_851397.1, 1 a.a. - 735 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	1 a.a. - 735 a.a.
<b>Description</b>	Hypoxia-inducible factor-1 (HIF-1), identified as one of the transcription factors, has been found to play an essential role in oxygen homeostasis. HIF-1 is a heterodimer composed of HIF-1 $\beta$ subunit and one of three subunits(Hif-1 $\alpha$ , Hif-2( or Hif-3)). The activation of Hif-1( is closely associated with a variety of tumors and oncogenic pathways. Hif-1( consists of DNA binding domain(DBD domain), Dimerization domain and C-termina regulatory domains, including two transactivation domains(TAD), an oxygen-dependent degradation(ODD) domain, and inhibitory domains.
<b>Form</b>	Liquid
<b>Molecular Mass</b>	109.1 kDa
<b>AA Sequence</b>	MEGAGGANDK KKISSERTKE KSRDAARSRR SKESSEVFYEL AHQLPLPHNV SSHLDKASVM RLTISYLRVR KLLDAGDLDI EDDMKAQMNC FYLKALDGFV MVLTDGDMI YISDNVNKYM GLTQFELTGH SVFDFTHPCD HEEMREMLTH RNGLVKKGKE QNTQRSFFLR MKCTLSRGR TMNIKSATWK VLHCTGHIHV

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YDTNSNQPQC GYKKPPMTCL VLICEPIPHP SNIEIPLDSK TFLSRHSLDM  
 KFSYCDERIT ELMGYEPEEL LGRSIYEYYH ALDSDHLLTKT HHDMFTKGQV  
 TTGQYRMLAK RGGYVWVETQ ATVIYNTKNS QPQCIVCVNY VVSGIIQHDL  
 IFSLQQTECV LKPVESDMK MTQLFTKVES EDTSSLFDKL KKEPDALTLL  
 APAAGDTIIS LDFGSNDTET DDQQLEEVPL YNDVMLPSPN EKLQINLAM  
 SPLPTAETPK PLRSSADPAL NQEVALKLEP NPESLELSFT MPQIQDQTPS  
 PSDGSTRQSS PEPNSPSEYC FYVDSDMVNE FKLELVEKLF AEDTEAKNPF  
 STQDLDLLE MLAPYIPMDD DFQLRSFDQL SPLESSSASP ESASPQSTVT  
 VFQQTQIQEP TANATTTTAT TDELKTVTKD RMEDIKILIA SPSPTIHKE  
 TTSATSSPYR DTQSRTASPN RAGKGVIEQT EKSHPRSPNV LSVALSQRRT  
 VPEEELNPKI LALQNAQRKR KMEHDGSLFQ AVGII

**Storage** Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

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

## GENE INFORMATION

**Gene Name** HIF1A hypoxia inducible factor 1, alpha subunit (basic helix-loop-helix transcription factor) [ [Homo sapiens](#) ]

**Official Symbol** HIF1A

**Synonyms** HIF1A; hypoxia inducible factor 1, alpha subunit (basic helix-loop-helix transcription factor); hypoxia-inducible factor 1-alpha; bHLHe78; HIF 1alpha; HIF1; MOP1; PASD8; HIF-1-alpha; member of PAS protein 1; ARNT interacting protein; ARNT-interacting protein; member of PAS superfamily 1; PAS domain-containing protein 8; basic-helix-loop-helix-PAS protein MOP1; class E basic helix-loop-helix protein 78; hypoxia-inducible factor 1 alpha isoform I.3; hypoxia-inducible factor 1, alpha subunit (basic helix-loop-helix transcription factor); HIF-1alpha; HIF1-ALPHA

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Gene ID	3091
mRNA Refseq	NM_001243084
Protein Refseq	NP_001230013
MIM	603348
UniProt ID	Q16665

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