

Recombinant Full Length Human HIF1A Protein, GST-tagged

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

SPECIFICATION

Product Overview	Human HIF1A full-length ORF (NP_851397.1, 1 a.a. - 735 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	1 a.a. - 735 a.a.
Description	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 β subunit and one of three subunits(Hif-1 α , 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-terminla regulatory domains, including two transactivation domains(TAD), an oxygen-dependent degradation(ODD) domain, and inhibitory domains.
Form	Liquid
Molecular Mass	109.1 kDa
AA Sequence	MEGAGGANDK KKISSERTKE KSRDAARSRR SKESEVFYEL AHQLPLPHNV SSHLDKASVM RLTISYLRVR KLLDAGDLDI EDDMKAQMNC FYLKALDGFV MVLTDGDMI YISDNVNKYM GLTQFELTGH SVFDFTHPCD HEEMREMLTH RNLVKKGKE QNTQRSFFLR MKCTLTSGR TMNIKSATWK VLHCTGHIHV

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YDTNSNQPC GYKKPPMTCL VLICEPIHP SNIEIPLDSK TFLSRHSLDM
 KFSYCDERIT ELMGYEPEEL LGRSIYEYYH ALDSDHLLTKT HHDMFTKGQV
 TTGQYRMLAK RGGYVWVETQ ATVIYNTKNS QPQCIVCVNY VVSGIIQHDL
 IFSLQQTECV LKPVESDMK MTQLFTKVES EDTSSLFDKL KKEPDALTLL
 APAAGDTIIS LDFGSNDTET DDQQLLEEVPL YNDVMLPSPN EKLQNINLAM
 SPLPTAETPK PLRSSADPAL NQEVALKLEP NPESLELSFT MPQIQDQTPS
 PSDGSTRQSS PEPNSPSEYC FYVDSMDVNE FKLELVEKLF AEDTEAKNPF
 STQDLDLLE MLAPYIPMDD DFQLRSFDQL SPLESSSASP ESASPQSTVT
 VFQQTQIQEP TANATTTTAT TDELKTVTKD RMEDIKILIA SPSPTIHKE
 TTSATSSPYR DTQSRTASPN RAGKGVIEQT EKSHPRSPNV LSVALSQRTT
 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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