

Recombinant Human HIF1A, His-tagged

Cat. No. HIF1A-107H **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 His-tag at N-terminal.
Species	Human
Source	E.coli
ProteinLength	1 to 735aa
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	100 kDa including tags
AA Sequence	MSDKIIHLTDDSFDTDVLKADGAILVDFWAEWCGPCKMIA PILDEIADEYQGKLTVAK LNIDQNPGTAPKYGIRGIPTLL LFKNGEVAATKVGALSKGQLKEFLDANLAGSGSGH MHHHH HHSSGLVPRGSGMKETAALKFERQHMDSPDLGTENLYFQG MEGAGGAN DKKKISSERRKEKSRDAARSRRSKESEVFYEL AHQLPLPHNVSSHLDKASVMRLTIS

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YLRVRKLLDAGDLDI EDDMKAQMNCFYLKALDGFVMVLTDDGDMYISDNVNKYM
GLTQFELTGHSVDFDTHPCDHEEMREMLTHRNLVKKGKE QNTQRSFFLRMKCTL
TSRGRTMNIKSATWKVLHCTGHIHV YDTNSNQPCGYKKPPMTCLVLICEPIPHPS
NIEIPLDSK TFLSRHSLDMKFSCYCDERITELMGYEPEELLGRSIYEYH ALDSHLTK
THHDMFTKGQVTTGQYRMLAKRGGYVWVETQ ATVIYNTKNSQPQCIVCVNYVVS
IIQHDLI FSLQQTCEV LKPVESSDMKMTQLFTKVESEDTSLSFDKLLKEPDALTLL AP
AAGDTIISLDFGSNDTETDDQQL EEVPLYNDVMLPSPN EKLQNINLAMSP LPTAETP
KPLRSSADPALNQEVALKLEP NPESLELSFTMPQIQDQTPSPSDGSTRQSSPEPNS
PSEYC FYVDSDMVNEFKLELVEKLFAEDTEAKNPFSTQD TDLDLE MLAPYIPMDDD
FQLRSFDQLSPLESSSASPESASPSTVT VFQQTQIQEPTANATTTTATTD ELKTVT
KDRMEDIKILIA SPSPTHIHKETTSATSSPYRDTQSRTASPNRAGKGVIEQT EKSH
RSPNVLSVALSQRTTVPEEELNPKILALQNAQRKR KMEHDGSLFQAVGIG

Purity > 75 % by SDS-PAGE. Purified by Ni chromatography and sterile filtered.

Storage Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.

Concentration 100 g at 0.3 mg/ml

Storage Buffer Constituents: 0.61% Tris, 10% Glycerol, 0.88% Sodium chloride. pH: 8.00

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

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	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;
Gene ID	3091
mRNA Refseq	NM_001243084
Protein Refseq	NP_001230013
MIM	603348
UniProt ID	Q16665
Chromosome Location	14q23.2
Pathway	Adipogenesis, organism-specific biosystem; Angiogenesis, organism-specific biosystem; Circadian Clock, organism-specific biosystem; HIF-1-alpha transcription factor network, organism-specific biosystem; Hypoxic and oxygen homeostasis regulation of HIF-1-alpha, organism-specific biosystem; NOTCH1 Intracellular Domain Regulates Transcription, organism-specific biosystem; Notch-mediated HES/HEY network, organism-specific biosystem;
Function	Hsp90 protein binding; histone acetyltransferase binding; histone deacetylase binding; protein binding; protein heterodimerization activity; protein heterodimerization activity; protein kinase binding; contributes_to sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; sequence-specific DNA binding transcription factor activity; sequence-specific distal enhancer binding RNA polymerase II transcription factor activity; contributes_to sequence-specific distal

enhancer binding RNA polymerase II transcription factor activity; signal transducer activity; transcription factor binding; transcription regulatory region DNA binding;

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