

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-termina 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 EDDMKAQMNCFYLKALDGFVMVLTDDGDMIIYISDNVNKYM
 GLTQFELTGHSVDFDFTHPCDHEEMREMLTHRNLVKKGKE QNTQRSFFLRMKCTL
 TSRGRTMNIKSATWKVLHCTGHIHV YDTNSNQPCQGYKKPPMTCLVLICEPIPHPS
 NIEIPLDSK TFLSRHSLDMKFYSYCDERITELMGYEPEELLGRSIYEYH ALDSDHLTK
 THHDMFTKGQVTTGQYRMLAKRGGYVWVETQ ATVIYNTKNSQPQCIVCVNYVVS
 IIQHDLIFSLQQTECV LKPVESDMKMTQLFTKVESEDTSLSFDKLLKKEPDALTL AP
 AAGDTIISLDFGSNDTETDDQQLEEVPLYNDVMLPSPN EKLQNINLAMSPLEPTAETP
 KPLRSSADPALNQEVALKLEP NPESLELSFTMPQIQDQTPSPSDGSTRQSSPEPNS
 PSEYC FYVDSDMVNEFKLELVEKLFAEDTEAKNPFSTQDSDLLE MLAPYIPMDDD
 FQLRSFDQLSPLESSSASPESASPSTVT VFQQTQIQEPTANATTTTATTDELKTVT
 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

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

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