

Recombinant Human Hypoxia Inducible Factor 1, Alpha Subunit, His-tagged

Cat. No. HIF1A-5020H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human Hif-1 alpha (1-85) protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.
Species	Human
Source	Human
ProteinLength	1-85 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 beta subunit and one of three subunits (Hif-1 alpha, Hif-2 alpha or Hif-3 alpha). The activation of Hif-1 alpha is closely associated with a variety of tumors and oncogenic pathways. Hif-1 alpha consists of DNA binding domain(DBD domain), dimerization domain and C-terminal regulatory domains, including two transactivation domains(TAD), an oxygen-dependent degradation(ODD) domain, and inhibitory domains.
Concentration	0.25 mg/ml
Form	Supplied as a liquid in 20mM Tris buffer, pH 8.0, containing 20% glycerol, 1mM DTT, 0.2M NaCl and 1mM EDTA.
Purity	> 80% by SDS - PAGE

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Sequence	1-85 amino acids: MGSSHHHHHH SSGLVPRGSH MEGAGGANDK KISSERRKE KSRDAARSRR SKESEVFYEL AHQLPLPHNV SSHLDKASVM RLTISYLRVR KLLDAGDLDI EDDMK
Molecular Mass	27.7 kDa (248aa), confirmed by MALDI-TOF.
Applications	SDS-PAGE
Storage	Store at 4 deg C for short term storage (1/2 weeks). Aliquot and store at -20 deg C or - 70 deg C for long term storage. Avoid repeated freeze/thaw cycles.

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); HIF1; MOP1; PASD8; bHLHe78; HIF-1alpha; HIF1-ALPHA; Hypoxia-inducible factor 1 alpha; HIF1 alpha; ARNT-interacting protein; Member of PAS protein 1; Basic-helix-loop-helix-PAS protein; ARNT interacting protein; hypoxia-inducible factor 1 alpha isoform I.3; member of PAS superfamily 1; hypoxia-inducible factor 1, alpha subunit
Gene ID	3091
mRNA Refseq	NM_001530
Protein Refseq	NP_001521

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MIM	603348
UniProt ID	Q16665
Chromosome Location	14q21-q24
Pathway	Pathways in cancer; Renal cell carcinoma; mTOR signaling pathway
Function	Hp90 protein binding; RNA polymerase II transcription factor activity, enhancer binding; histone acetyltransferase binding; protein heterodimerization activity; sequence-specific DNA binding; signal transducer activity; transcription factor binding
PDB rendering based on 1h2k.	