

Recombinant Human Neutrophil Cytosolic Factor 1, His-tagged

Cat. No. NCF1-2749H **Lot. No.** (See product label)

SPECIFICATION

Product Overview Recombinant human HIF1A(576-785) protein, fused to His-tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography techniques. MW = 25.1 kDa (231aa).

Species Human

Source E.coli

ProteinLength 576-785 a.a.

Description HIF1A, identified as one of the transcription factors, has been found to play an essential role in oxygen homeostasis. This protein is a heterodimer composed of HIF-1beta subunit and one of three subunits(HIF-1A, HIF-2A or HIF-3A). The activation of HIF1A is closely associated with a variety of tumors and oncogenic pathways. HIF1A 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. In 20 mM Tris-HCl buffer (pH8.0) containing 0.2M NaCl, 1mM DTT, 10% glycerol.

Purity > 85% by SDS - PAGE.

Concentration 1 mg/ml (determined by Bradford assay).

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Sequences Of Amino Acids

MGSSHHHHHH SSSLVPRGSH MSFDQLSPLE SSSASPESAS PQSTVTVFQQ TQI
 QEPTANA TTTTATTDEL KTVTKDRMED IKILIASPSP THHKETTS A TSSPYRDTQS
 RT A SPNRAGK GVIEQTEKSH PRSPNVLSVA LSQRRTVPEE ELNPKILALQ NA
 QRK RKMEH DGSLFQAVGI GTLLQQPDDH AATTSLSWKR VKGCKSSEQN GME
 QKTIILI PSDLACRLLG Q.

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION
Gene Name

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

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

MIM

603348

UniProt ID

Q16665

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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

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