

Recombinant Human HIF1A protein, His-tagged

Cat. No. HIF1A-145H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HIF1A(Arg575~Asn826) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Arg575~Asn826
Form	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Molecular Mass	59.4kDa
Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	> 90%
Applications	SDS-PAGE; WB; ELISA; IP
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and

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store at -80 centigrade for 12 months.

Reconstitution Reconstitute in PBS or others.

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;

Gene ID 3091

mRNA Refseq NM_001243084

Protein Refseq NP_001230013

MIM 603348

UniProt ID Q16665

Chromosome Location 14q23.2

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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;