Recombinant Human HIF1A, GST-tagged

Cat. No. HIF1A-106H **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 GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
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-1β subunit and one of three subunits(Hif-1α, 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 regulatiory domains, including two transactivation domains(TAD), an oxygen-dependent degradation(ODD) domain, and inhibitory domains.
Form	Liquid
Molecular Mass	109.1 kDa
AA Sequence	MEGAGGANDKKKISSERRKEKSRDAARSRRSKESEVFYELAHQLPLPHNVSSHLDK ASVMRLTISYLRVRKLLDA GDLDIEDDMKAQMNCFYLKALDGFVMVLTDDGDMIYIS DNVNKYMGLTQFELTGHSVFDFTHPCDHEEMREMLTH RNGLVKKGKEQNTQRSF FLRMKCTLTSRGRTMNIKSATWKVLHCTGHIHVYDTNSNQPQCGYKKPPMTCLVLIC E PIPHPSNIEIPLDSKTFLSRHSLDMKFSYCDERITELMGYEPEELLGRSIYEYYHALD SDHLTKTHHDMFTKGQV TTGQYRMLAKRGGYVWVETQATVIYNTKNSQPQCIVCV

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	NYVVSGIIQHDLIFSLQQTECVLKPVESSDMKMTQLF TKVESEDTSSLFDKLKKEPD ALTLLAPAAGDTIISLDFGSNDTETDDQQLEEVPLYNDVMLPSPNEKLQNINLAM SPL PTAETPKPLRSSADPALNQEVALKLEPNPESLELSFTMPQIQDQTPSPSDGSTRQSS PEPNSPSEYCFYVDS DMVNEFKLELVEKLFAEDTEAKNPFSTQDTDLDLEMLAPYIP MDDDFQLRSFDQLSPLESSSASPESASPQSTVT VFQQTQIQEPTANATTTTATTDE LKTVTKDRMEDIKILIASPSPTHIHKETTSATSSPYRDTQSRTASPNRAGKG VIEQTE KSHPRSPNVLSVALSQRTTVPEEELNPKILALQNAQRKRKMEHDGSLFQAVGII	
Storage	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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

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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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