

Recombinant Full Length Human HIF1A Protein, N-GST-tagged

Cat. No. HIF1A-01H **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
ProteinLength	1-735aa
Description	This gene encodes the alpha subunit of transcription factor hypoxia-inducible factor-1 (HIF-1), which is a heterodimer composed of an alpha and a beta subunit. HIF-1 functions as a master regulator of cellular and systemic homeostatic response to hypoxia by activating transcription of many genes, including those involved in energy metabolism, angiogenesis, apoptosis, and other genes whose protein products increase oxygen delivery or facilitate metabolic adaptation to hypoxia. HIF-1 thus plays an essential role in embryonic vascularization, tumor angiogenesis and pathophysiology of ischemic disease. Alternatively spliced transcript variants encoding different isoforms have been identified for this gene.
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	109.1 kDa
AA Sequence	MEGAGGANDKKKISSERRKEKSRDAARSRRSKESEVFYELAHQLPLPHNVSSHLDK ASVMRLTISYLRVRKLLDAGDLIEDDMKAQMNCFYLKALDGFVVMVLTDGDMIYIS

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DNVNKYMGLTQFELTGHSVDFDTHPCDHEEMREMLTHRNLVKKGKEQNTQRSFF
 LRMKCTLTSRGRTMNIKSATWKVLHCTGHIHVYDTNSNQPCGYKKPPMTCLVLIC
 EPIPHPSNIEIPLDSKTFLSRHSLDMKFSYCDERITELMGYEPEELLGRSIYEYYHALD
 SDHLTKTHHDMFTKGQVTTGQYRMLAKRGGYVWVETQATVIYNTKNSQPQCIVCV
 NYVVSGIIQHDLIFSLQQTECVLKPVESSDMKMTQLFTKVESEDTSSEFDKLLKEPDA
 LTLLAPAAGDTIISLDFGSNDTETDDQQLLEEVPLYNDVMLPSPNEKLQNINLAMSPPL
 TAETPKPLRSSADPALNQEVALKLEPNPESLELSFTMPQIQDQTPSPSDGSTRQSSP
 EPNSPSEYCFYVDSDMVNEFKLELVEKLFADTEAKNPFSTQDLDLEMLAPYIPM
 DDDFQLRSFDQLSPLESSSASPESASPQSTVTVFQQTQIQEPTANATTTTATTDDELK
 TVTKDRMEDIKILIASPSPTHIHKETTSATSSPYRDTQSRTASPNRAGKGVIEQTEKSH
 PRSPNVLSVALSQRTTVPEEELNPKILALQNAQRKRKMEHDGSLFQAVGII

Purity Glutathione Sepharose 4 Fast Flow

Applications Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Notes Best use within three months from the date of receipt of this protein.

Storage Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name HIF1A hypoxia inducible factor 1 subunit alpha [Homo sapiens (human)]

Official Symbol HIF1A

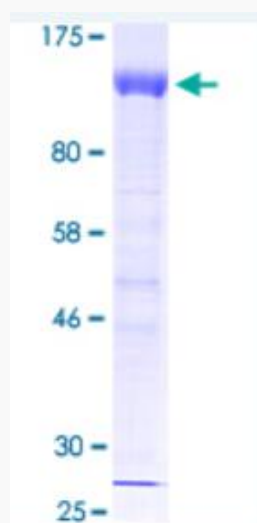
Synonyms HIF1; MOP1; PASD8; HIF-1A; bHLHe78; HIF-1alpha; HIF1-ALPHA; HIF-1-alpha

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Gene ID	3091
mRNA Refseq	NM_181054.1
Protein Refseq	NP_851397.1
MIM	603348
UniProt ID	Q16665

SDS-PAGE


12.5% SDS-PAGE Stained with Coomassie Blue.

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