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Product datasheet for AR09668PU-S

HIF1A / HIF1 alpha (1-85, His-tag) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	HIF1A / HIF1 alpha (1-85, His-tag) human recombinant protein, 10 µg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MGSSHHHHHH SSGLVPRGSH MEGAGGANDK KKISSERRKE KSRDAARSRR SKESEVFYEL AHQLPLPHNV SSHLDKASVM RLTISYLRVR KLLDAGDLDI EDDMK
Tag:	His-tag
Predicted MW:	11.8 kDa
Concentration:	lot specific
Purity:	>80% by SDS – PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris buffer (pH 8.0) containing 20% glycerol, 1 mM DTT, 0.2M NaCl, 1 mM EDTA
Preparation:	Liquid purified protein
Protein Description:	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.
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_001230013
Locus ID:	3091
UniProt ID:	Q16665
Cytogenetics:	14q23.2
Synonyms:	bHLHe78; HIF-1-alpha; HIF-1A; HIF-1alpha; HIF1; HIF1-ALPHA; MOP1; PASD8

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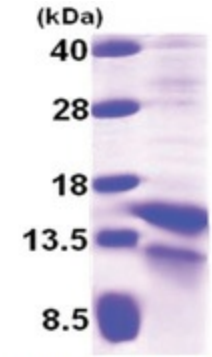
Summary: This gene encodes the alpha subunit of transcription factor hypoxia-inducible factor-1 (HIF-1), which is a heterodimer composed of an alpha and a beta subunit. HIF-1 functions as a master regulator of cellular and systemic homeostatic response to hypoxia by activating transcription of many genes, 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. [provided by RefSeq, Jul 2011]

Protein Families: Transcription Factors

Protein Pathways: mTOR signaling pathway, Pathways in cancer, Renal cell carcinoma

Product images:



15% SDS-PAGE (3ug)