

# Product information



## HIF1a, 1-85 aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP0730

**Full name:** Hypoxia-inducible factor 1-alpha.

**NCBI Accession No.:** NP\_001521

**Synonyms:** BHLHE78, MOP1, PASD8.

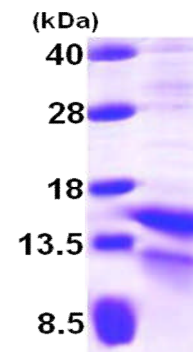
**Description:** Hypoxia-inducible factor-1 (HIF-1), identified as one of the transcription factors, has been found to play an essential role in oxygen homeostasis. HIF-1 is a heterodimer composed of HIF-1 beta subunit and one of three subunits (Hif-1 alpha, Hif-2 alpha or Hif-3 alpha). The activation of Hif-1 alpha is closely associated with a variety of tumors and oncogenic pathways. Hif-1 alpha consists of DNA binding domain(DBD domain), dimerization domain and C-terminal regulatory domains, including two transactivation domains(TAD), an oxygen-dependent degradation(ODD) domain, and inhibitory domains. 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.

**Form:** Liquid. In 20mM Tris buffer(pH 8.0) containing 20% glycerol, 1mM DTT, 0.2M NaCl, 1mM EDTA.

**Molecular Weight:** 11.8 kDa (105aa), confirmed by MALDI-TOF  
(molecular size on SDS-PAGE will appear higher)

**Purity:** > 80 % by SDS – PAGE

**Concentration:** 0.25 mg/ml (determined by Bradford assay)



15% SDS-PAGE (3ug)

### Sequences of amino acids:

MGSSHHHHH SSGLVPRGSH MEGAGGANDK KKISSERRKE KSRDAARSRR SKESEVFYEL AHQLPLPHNV SSHLDKASVM RLTISYLRVR  
KLLDAGDLDI EDDMK

### General references:

Okuyama H., *et al.* (2006) *J Biol Chem.* 281(22):15554-63.

**WARNING: THIS PRODUCT IS NOT INTENDED OR APPROVED FOR HUMAN, DIAGNOSTICS OR VETERINARY USE. USE OF THIS PRODUCT FOR HUMAN OR ANIMAL TESTING IS EXTREMELY HAZARDOUS AND MAY RESULT IN DISEASE, SEVERE INJURY, OR DEATH.**

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**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.

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