

# Recombinant human HIF-1 alpha/HIF1A protein

Catalog Number: ATGP0730

## PRODUCT INFORMATION

**Expression system**

E.coli

**Domain**

1-85aa

**UniProt No.**

Q16665

**NCBI Accession No.**

NP\_001521.1

**Alternative Names**

Hypoxia inducible factor 1 subunit alpha, Hypoxia-inducible factor 1-alpha, HIF1-alpha, ARNT-interacting protein, Basic-helix-loop-helix-PAS protein MOP1, Class E basic helix-loop-helix protein 78, bHLHe78, Member of PAS protein 1, PAS domain-containing protein 8, PASD8, MOP1

## PRODUCT SPECIFICATION

**Molecular Weight**

11.8 kDa (105aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

**Concentration**

0.25mg/ml (determined by Bradford assay)

**Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 1mM DTT, 0.2M NaCl, 1mM EDTA

**Purity**

> 80% by SDS-PAGE

**Tag**

His-Tag

**Application**

SDS-PAGE

**Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

**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

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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.

## Amino acid Sequence

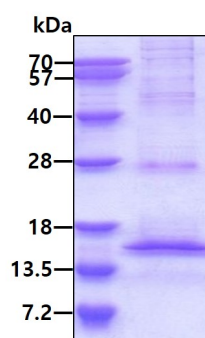
<MGSSHHHHHH SSGLVPRGSH> MEGAGGANDK KKISSERTKE KSRDAARSRR SKESEVFYEL AHQLPLPHNV  
SSHLDKASVM RLTISYLRVR KLLDAGDLDI EDDMK

## General References

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

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain