

**HIF1a, 1-85aa, Human, His tag, E.coli**

**Cat.NO.: TP02450**

3th Edition

**Synonyms:**Hypoxia-inducible factor 1-alpha, 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.

**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)

**Sequences:**

MGSSHHHHHHSSGLVPRGSHMEGAGGANDKKKISSERRKEKSRDAARSRRSKESEVFYELAHQLPLPHNVSSHL  
DKASVMRLTISYLRVRKLLDAGDLIEDDMK

**Purity:**> 95% by HPLC

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

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**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.