

Hif-1a (530-826 aa) Human, Recombinant, E.coli

Cat.NO.: TP02449

3th Edition

Synonyms:Hypoxia-inducible factor-1?, MOP1, ARNT-interacting protein, Member of PAS protein 1, Basic-helix-loop-helix-PAS protein MOP1

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? subunit and one of three subunits(Hif-1?, Hif-2(or Hif-3)). The activation of Hif-1 is closely associated with a variety of tumors and oncogenic pathways. Hif-1(consists of DNA binding domain(DBD domain), Dimerization domain and C-terminla regulatory domains, including two transactivation domains(TAD), an oxygen-dependent degradation(ODD) domain, and inhibitory domains.

Form:Liquid. In 20 mM Tris-HCl buffer (pH 7.5) containing 1 mM DTT

Molecular Weight:32.8kDa (298aa), confirmed by MALDI-TOF, (molecular weight on SDS-PAGE will appear higher)

Sequences:

MEFKLELVEKLFAEDTEAKNPFSTQDLDLEMLAPYIPMDDDFQLRSFDQLSPLESSSASPESASPQSTVTVFQQT
QIQEPTANATTTTATTTDELKTVTKDRMEDIKILIASPSPTHHKETTSATSSPYRDTQSRTASPNRAGKGVIEQTEKSH
PRSPNVLSVALSQRTTVPEEELNPKILALQNAQRKRKMEHDGSLFQAVGIGTLLQQPDDHAATTSLWKRVKGCKS
SEQNGMEQKTIILIPSDLACRLLGQSMDESGLPQLTSYDCEVNAPIQGSRNLLQGEELLRALDQVN

Purity:> 95% by HPLC

Concentration:1 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.