

HIF1A, 576-785aa, Human, His tag, E.coli

Cat.NO.: TP02451

3th Edition

Synonyms:Hypoxia-inducible factor 1-alpha, BHLHE78, MOP1, PASD8

Description:HIF1A, identified as one of the transcription factors, has been found to play an essential role in oxygen homeostasis. This protein is a heterodimer composed of HIF-1beta subunit and one of three subunits(HIF-1A, HIF-2A or HIF-3A). The activation of HIF1A is closely associated with a variety of tumors and oncogenic pathways. HIF1A 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 (pH8.0) containing 0.2M NaCl,1mM DTT, 10% glycerol

Molecular Weight:25.1 kDa (231aa) confirmed by MALDI-TOF, (Real molecular weight on SDS-PAGE will be shift up)

Sequences:

MGSSHHHHHSSGLVPRGSHMSFDQLSPLESSSASPESASPQSTVTVFQQTQIQEPTANATTTTATTDELKTVTK
DRMEDIKILIASPSPTHIHKETTSATSSPYRDTQSRTASPNRAGKGVIEQTEKSHPRSPNVLSVALSQRTTVPEEELN
PKILALQNAQRKRKMEHDGSLFQAVGIGTLLQQPDDHAATTSLSWKRVKGCKSSEQNGMEQKTIILIPSDLACRLLG
Q

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.