Recombinant human HIF-1 alpha/HIF1A protein

Catalog Number: HIF0501

PRODUCT INFORMATION

Expression system
E.coli

Domain
530-826aa

UniProt No.
Q16665

NCBI Accession No.
NP_001521

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

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 7.5) containing 1mM DTT

Purity
> 90% by SDS-PAGE

Tag
Non-Tagged

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-1beta subunit and one of three subunits (Hif-1alpha, Hif-2 or Hif-3). The activation of Hif-1 is closely associated with a variety of tumors and oncogenic pathways. Hif-1alpha consists of DNA binding domain (DBD domain), Dimerization domain and C-

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terminla regulatiory domains, including two transactivation domains (TAD), an oxygen-dependent degradation (ODD) domain, and inhibitory domains. Hif-1 alpha (530-826 residues) contains two TAD and inhibitory domain. Recombinant Hif-1 alpha (530-826 residues) was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

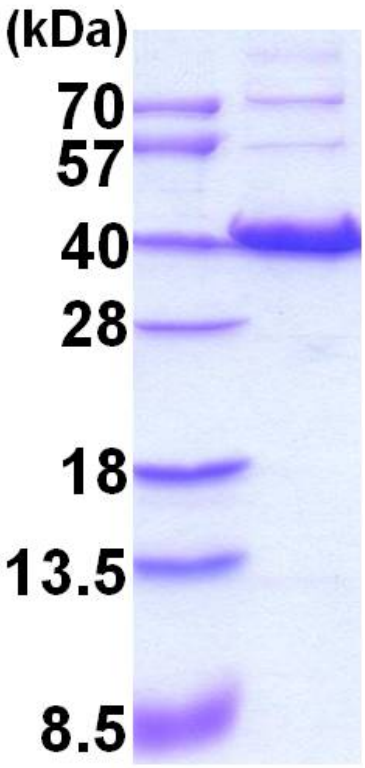
MEFKLELVEK LFAEDTEAKN PFSTQDTDLD LEMLAPYIPM DDDFQLRSFD QLSPLESSSA SPESASPQST VTVFQQTQIQ EPTANATTTT ATTDELKTVT KDRMEDIKIL IASPSPTHIH KETTSATSSP YRDTQSRTAS PNRAGKGVIE QTEKSHPRSP NVLSVALSQR TTVPEEELNP KILALQNAQR KRKMEHDGSL FQAVGIGTLL QQPDDHAATT SLSWKRVKGC KSSEQNGMEQ KTIILIPSDL ACRLLGQSMD ESGLPQLTSY DCEVNAPIQG SRNLLQGEEL LRALDQVN

General References

Okuyama H. et al., (2006) J. Biol Chem. 281(22):15554-63
Berra E. et al., (2006) EMBO.7(1):41-5

DATA

SDS-PAGE



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