Recombinant human HIF-1 alpha/HIF1A protein

Catalog Number: ATGP0647

PRODUCT INFORMATION

Expression system
E.coli

Domain
576-785aa

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

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 1mM DTT, 10% glycerol

Purity
> 85% 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
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 regulatiory domains,

Recombinant human HIF-1 alpha/HIF1A protein

Catalog Number: ATGP0647

including two transactivation domains (TAD), an oxygen-dependent degradation (ODD) domain, and inhibitory domains. Recombinant human HIF1A (576-785) protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques

Amino acid Sequence

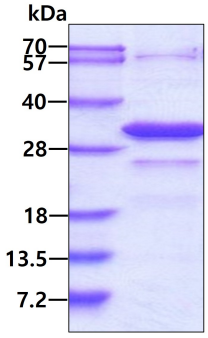
<MGSSHHHHHH SSGLVPRGSH> MSFDQLSPLE SSSASPESAS PQSTVTVFQQ TQIQEPTANA TTTTATTDEL KTVTKDRMED IKILIASPSP THIHKETTSA TSSPYRDTQS RTASPNRAGK GVIEQTEKSH PRSPNVLSVA LSQRTTVPEE ELNPKILALQ NAQRKRKMEH DGSLFQAVGI GTLLQQPDDH AATTSLSWKR VKGCKSSEQN GMEQKTIILI PSDLACRLLG Q

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.