

AR09585PU-L

Human HIF1A / HIF1 alpha (576-785, His-tag) - Purified

Alternate names:

ARNT-interacting protein, BHLHE78, Basic-helix-loop-helix-PAS protein MOP1, Class E basic helix-loop-helix protein 78, HIF-1 alpha, Hypoxia-inducible factor 1 alpha, Member of PAS protein 1

Quantity:

0.25 mg

Concentration:

1.0 mg/ml (determined by Bradford assay)

Background:

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.

Uniprot ID:

[Q16665](#)

NCBI:

[NP_001521](#)

GenelD:

[3091](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >85% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.2 M NaCl, 1 mM DTT, 10% glycerol

Description:

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.

AA Sequence:

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

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

Storage:

Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.

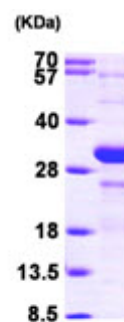
Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

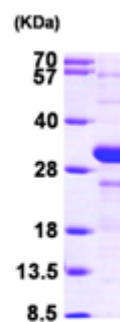
Okuyama H. et al., (2006) J. Biol Chem. 281(22):15554-63.

Pictures:



15% SDS-PAGE (3ug)

Recombinant human HIF1A, 576-785 aa,
His-tagged



15% SDS-PAGE (3ug)