

## Product datasheet for AR09585PU-L

## OriGene Technologies, Inc.

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

**Product data:** 

**Product Type:** Recombinant Proteins

**Description:** HIF1A / HIF1 alpha (576-785, His-tag) human recombinant protein, 0.25 mg

Species: Human
Expression Host: E. coli

**Expression cDNA Clone** 

or AA 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

Tag: His-tag

Predicted MW: 25.1 kDa

Concentration: lot specific

Purity: >85% by SDS - PAGE

**Buffer:** Presentation State: Purified

State: Liquid purified protein

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

**Preparation:** Liquid purified protein

**Protein 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.

**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.

**Stability:** Shelf life: one year from despatch.

**RefSeg:** NP 001230013

 Locus ID:
 3091

 UniProt ID:
 Q16665

 Cytogenetics:
 14q23.2

Synonyms: bHLHe78; HIF-1-alpha; HIF-1A; HIF-1alpha; HIF1; HIF1-ALPHA; MOP1; PASD8





**Summary:** 

This gene encodes the alpha subunit of transcription factor hypoxia-inducible factor-1 (HIF-1), which is a heterodimer composed of an alpha and a beta subunit. HIF-1 functions as a master regulator of cellular and systemic homeostatic response to hypoxia by activating transcription of many genes, including those involved in energy metabolism, angiogenesis, apoptosis, and other genes whose protein products increase oxygen delivery or facilitate metabolic adaptation to hypoxia. HIF-1 thus plays an essential role in embryonic vascularization, tumor angiogenesis and pathophysiology of ischemic disease. Alternatively spliced transcript variants encoding different isoforms have been identified for this gene. [provided by RefSeq, Jul 2011]

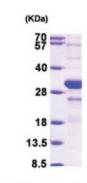
Protein Families:

**Transcription Factors** 

**Protein Pathways:** 

mTOR signaling pathway, Pathways in cancer, Renal cell carcinoma

## **Product images:**



15% SDS-PAGE (3ug)