

# Product datasheet for AR39117PU-L

#### OriGene Technologies, Inc.

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## HIF1A / HIF1 alpha (530-826) Human Protein

#### **Product data:**

**Product Type:** Recombinant Proteins

**Description:** HIF1A / HIF1 alpha (530-826) human recombinant protein, 0.5 mg

Species: Human
Expression Host: E. coli

Expression cDNA Clone MEFKLELVEK LFAEDTEAKN PFSTQDTDLD LEMLAPYIPM DDDFQLRSFD QLSPLESSSA

or AA Sequence: SPESASPQST VTVFQQTQIQ EPTANATTTT ATTDELKTVT KDRMEDIKIL IASPSPTHIH KETTSATSSP

YRDTQSRTAS PNRAGKGVIE QTEKSHPRSP NVLSVALSQR TTVPEEELNP KILALQNAQR KRKMEHDGSL FQAVGIGTLL QQPDDHAATT SLSWKRVKGC KSSEQNGMEQ KTIILIPSDL

ACRLLGQSMD ESGLPQLTSY DCEVNAPIQG SRNLLQGEEL LRALDQVN

Predicted MW: 32.8 kDa

Concentration: lot specific

Purity: >95%

**Buffer:** Presentation State: Purified

State: Liquid purified protein

Buffer System: 20 mM Tris-HCl buffer (pH 7.5) containing 1 mM DTT

Preparation: Liquid purified protein

**Protein Description:** Recombinant Hif-1 alpha (530-826 residues) 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.

**RefSeq:** 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





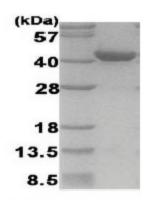
**Summary:** 

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)