

# Recombinant Human Hypoxia Inducible Factor 1, Alpha Subunit Inhibitor

**Cat. No.** HIF1AN-5022H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant human HIF1AN protein was expressed in E. coli and purified by using conventional chromatography techniques.
<b>Species</b>	Human
<b>Source</b>	Human
<b>Description</b>	Hypoxia-inducible factor 1, alpha subunit inhibitor (HIF1AN), a member of the Fe <sup>2+</sup> and 2-oxoglutarate-dependent dioxygenase superfamily, is a protein that hydroxylates a specific asparagine residue (Asn-803) within the HIF1alpha C-terminal transactivation domain. In normoxia, the HIF1AN-mediated hydroxylation of the HIF1alpha transactivation domain results in blockage of the HIF1alpha-p300/CBP interaction and represses transcriptional activity of HIF1alpha-targeted genes.
<b>Concentration</b>	1 mg/ml
<b>Form</b>	Supplied as a liquid in 20mM Tris-HCl buffer, pH 8.0.
<b>Purity</b>	> 90% by SDS - PAGE
<b>Sequence</b>	1-349 amino acids: MAATAAEAVA SGSGEPREEA GALGPAWDES QLRYSFPTR PIPRLSQSDP RAEELIENEE PVVLTDTNLV YPALKWDLEY LQENIGNGDF SVYSASTHKF LYYDEKKMAN FQNFKPRSNR EEMKFHEFVE KLQDIQQRGG EERLYLQQTL NDTVGRKIVM DFLGFNWNWI NKQQGKRGWG QLTSNLLIG

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

MEGNVTPAHY DEQQNFFAQI KGYKR

**Molecular Mass** 40.2 kDa (349 aa), confirmed by MALDI-TOF.

**Applications** SDS-PAGE

**Storage** Store at 4 deg C for short term storage (1/2 weeks). Aliquot and store at -20 deg C or -70 deg C for long term storage. Avoid repeated freeze/thaw cycles.

## GENE INFORMATION

**Gene Name** [HIF1AN hypoxia inducible factor 1, alpha subunit inhibitor \[ Homo sapiens \]](#)

**Official Symbol** HIF1AN

**Synonyms** HIF1AN; DKFZp762F1811; FIH1; FLJ20615; FLJ22027; hypoxia inducible factor 1, alpha subunit inhibitor; OTTHUMP00000020284; factor inhibiting HIF1; peptide-aspartate beta-dioxygenase; DKFZp762F1811; EC 1.14.11.16; FIH-1; Factor inhibiting HIF-1; Hypoxia-inducible factor asparagine hydroxylase; factor inhibiting HIF1; hypoxia-inducible factor 1, alpha subunit inhibitor

**Gene ID** [55662](#)

**mRNA Refseq** [NM\\_017902](#)

**Protein Refseq** [NP\\_060372](#)

**MIM** [606615](#)

**UniProt ID** Q9NWT6

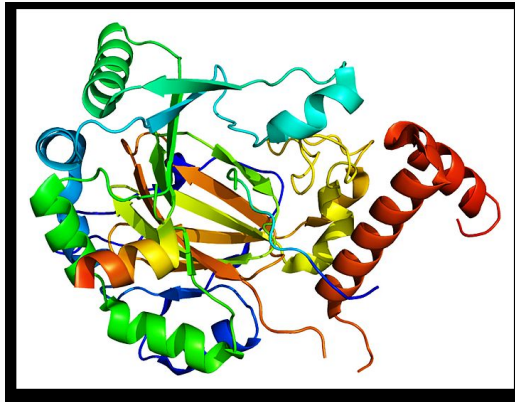
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<b>Chromosome Location</b>	10q24
<b>Pathway</b>	HIF-2-alpha transcription factor network; Hypoxic and oxygen homeostasis regulation of HIF-1-alpha
<b>Function</b>	iron ion binding; metal ion binding; oxidoreductase activity; oxidoreductase activity, acting on single donors with incorporation of molecular oxygen, incorporation of two; atoms of oxygen; peptide-aspartate beta-dioxygenase activity; protein binding

**PDB rendering based on 1h2k.**



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