

Recombinant Human Hypoxia Inducible Factor 1, Alpha Subunit Inhibitor

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

SPECIFICATION

Product Overview	Recombinant human HIF1AN protein was expressed in E. coli and purified by using conventional chromatography techniques.
Species	Human
Source	Human
Description	Hypoxia-inducible factor 1, alpha subunit inhibitor (HIF1AN), a member of the Fe ²⁺ 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.
Concentration	1 mg/ml
Form	Supplied as a liquid in 20mM Tris-HCl buffer, pH 8.0.
Purity	> 90% by SDS - PAGE
Sequence	1-349 amino acids: MAATAAEAVA SGSGEPREEA GALGPAWDES QLRSYSFPTR PIPRLSQSDP RAEELIENEE PVVLTDTNLV YPALKWDLEY LQENIGNGDF SVYSASTHKF LYYDEKKMAN FQNFKPRSNR EEMKFHEFVE KLQDIQQRGG EERLYLQQTL NDTVGRKIVM DFLGFNWNWI NKQQGKRGWG QLTSNLLIG

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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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Chromosome Location	10q24
Pathway	HIF-2-alpha transcription factor network; Hypoxic and oxygen homeostasis regulation of HIF-1-alpha
Function	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.	