Recombinant Human Hypoxia-Inducible Factor 1, Alpha Subunit Inhibitor

Cat. No. HIF1AN-361H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human HIF1AN protein was expressed in E.coli and purified by using conventional chromatography techniques, 40.2 kDa (349 aa).
Species	Human
Source	E.coli
Description	Hypoxia-inducible factor 1, alpha subunit inhibitor (HIF1AN), a member of the Fe2+ and 2-oxoglutarate-dependent dioxygenase superfamily, is protein that hydoxylates a specific asparagine residue (Asn-803) within the HIF1α C-terminal transactivation domain. In normoxia, the HIF1AN-mediated hydroxylation of the HIF1α transactivation domain results in blockage of the HIF1α-p300/CBP interaction and represses transcriptional activity of HIF1α-targeted genes.
Form	Liquid. In 20 mM Tris-HCl buffer (pH 8.0).
Purity	> 95% by SDS - PAGE.
Concentration	1 mg/ml (determined by Bradford assay)
Sequences of amino acids	MAATAAEAVA SGSGEPREEA GALGPAWDES QLRSYSFPTR PIPRLSQSDP RAEELIENEE PVVLTDTNLV YPALKWDLEY LQENIGNGDF SVYSAS THKF LYYDEKKMAN FQNFKPRSNR EEMKFHEFVE KLQDIQQRGG EERLYLQQTL NDTVGRKIVM DFLGFNWNWI NKQQGKRGWG QLTSNLLLIG MEGNVTPAHY

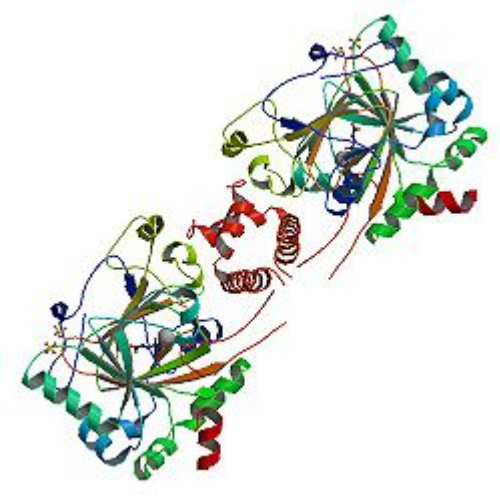
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	DEQQNFFAQI KGYKRCILFP PDQFECLYPY PVHHPCDRQS QVDFDNPDYE RFPNFQNVVG YETVVGPGDV LYIPMYWWHH IESL LNGGIT ITVNFWYKGA PTPKRIEYPL KAHQKVAIMR NIEKMLGEAL GNPQEVGPLL NTMIKGRYN
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	HIF1AN hypoxia inducible factor 1, alpha subunit inhibitor [Homo sapiens]
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
Chromosome Location	10q24
Function	iron ion binding; metal ion binding; oxidoreductase activity; oxidoreductase activity,

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	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.Available structures: 1h2k, 1h2l, 1h2m, 1h2n, 1iz3, 1mze, 1mzf, 1yci, 2cgn, 2cgo	

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