

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 Fe ²⁺ and 2-oxoglutarate-dependent dioxygenase superfamily, is protein that hydroxylates 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 L YYDEKKMAN FQNFKPRSNR EEMKFHEFVE KLQDIQQRGG EERLYLQQTL NDTVGRKIVM DFLGFNWNWI NKQQGKRGWG QLTSNLLIG MEGNVTPAHY

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DEQQNFFAQI KGYKRCILFP PDQFECLYPY PVHHPCDRQS QVDFDNPDIYE
RFPNFQNVVG YETVVGPGDV LYIPMYWWHH IESL LNGGIT ITVNFYWKGA
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

