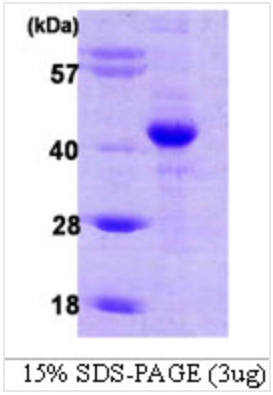
HIF1AN Recombinant Protein

PRODUCT OVERVIEW

Product Name	HIF1AN, Recombinant Protein
Full Product Name	HIF1AN, 1-349aa, Human, E Coli
Product Gene Name	HIF1AN recombinant protein
Product Synonym Names	Hypoxia-inducible factor 1 alpha subunit inhibitor; Hypoxia-inducible factor asparagine hydroxylase; Factor inhibiting HIF-1; FIH1; Hypoxia-inducible factor 1; alpha subunit inhibitor Hypoxia inducible factor asparagine hydroxylase; Factor inhibiting HIF1; FIH 1; FLJ20615; FLJ22027; Hypoxia inducible factor 1 alpha inhibitor; Hypoxia inducible factor 1 alpha subunit inhibitor; Peptide aspartate beta dioxygenase; DKFZp762F1811; Hypoxia-Inducible Factor-1 Alpha Inhibitor
Sequence	MAATAAEAVA SGSGEPREEA GALGPAWDES QLRSYSFPTR PIPRLSQSDP RAEELIENEE PVVLTDTNLV YPALKWDLEY LQENIGNGDF SVYSASTHKF LYYDEKKMAN FQNFKPRSNR EEMKFHEFVE KLQDIQQRGG EERLYLQQTL NDTVGRKIVM DFLGFNWNWI NKQQGKRGWG QLTSNLLLIG MEGNVTPAHY DEQQNFFAQI KGYKRCILFP PDQFECLYPY PVHHPCDRQS QVDFDNPDYE RFPNFQNVVG YETVVGPGDV LYIPMYWWHH IESLLNGGIT ITVNFWYKGA PTPKRIEYPL KAHQKVAIMR NIEKMLGEAL GNPQEVGPLL NTMIKGRYN
Host	E Coli
Form/Format	Liquid. In 20 mM Tris-HCl Buffer (pH 8.0)
Purity/Purification	> 90% by SDS-PAGE
Concentration	1 mg/ml (determined by Bradford assay) (lot specific)
Preparation and Storage	Can be stored at 4 degree C short term (1-2 weeks). For long term storage, aliquot and store at -20 degree C or -70 degree C. Avoid repeated freezing and thawing cycles.
Molecular Weight	40.2 kDa (349 aa), confirmed by MALDI-TOF.
OMIM	AF395830 mRNA
3D Structure	ModBase 3D Structure for Q9NWT6
Antigen Species	Human
Product Categories/Family for HIF1AN recombinant protein	Cell Cycle
Applications Tested/Suitable for HIF1AN recombinant protein	SDS-PAGE
Related Product Information for HIF1AN recombinant protein	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 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. Recombinant human HIF1AN protein was expressed in E Coli and purified by using conventional chromatography techniques.
Product References and Citations for HIF1AN recombinant protein	Fukuba H., et al. (2008) Neurosci Lett. 433 (3):209-14.; Li J., et al. (2007) Mol Cell Biol. 27 (20):7345-53.;
Other Notes	Small volumes of HIF1AN recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for HIF1AN purchase	MBS203207 is a recombinant protein targeting HIF1AN. Also known as HIF1AN, 1-349aa, Human, E Coli. Host: E Coli.



SDS-Page of HIF1AN recombinant protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HIF1AN. It may not necessarily be applicable to this product.

NCBI GI #	148596936
NCBI GeneID	55662
NCBI Accession #	NP_060372
UniProt Primary Accession #	Q9NWT6
UniProt Secondary Accession #	Q5W147; Q969Q7; Q9NPV5; D3DR69
UniProt Related Accession #	Q9NWT6
GenBank Nucleotide #	NP_060372.2
NCBI Official Full Name	hypoxia-inducible factor 1-alpha inhibitor
NCBI Official Synonym Full Names	hypoxia inducible factor 1 alpha subunit inhibitor
NCBI Official Symbol	HIF1AN
NCBI Official Synonym Symbols	FIH1
UniProt Protein Name	Hypoxia-inducible factor 1-alpha inhibitor
UniProt Synonym Protein Names	Factor inhibiting HIF-1; FIH-1; Hypoxia-inducible factor asparagine hydroxylase
Protein Family	Hypoxia-inducible factor 1-alpha inhibitor
UniProt Gene Name	HIF1AN
UniProt Synonym Gene Names	FIH1; FIH-1
NCBI Protein Information	hypoxia-inducible factor 1-alpha inhibitor
UniProt Comments for HIF1AN	Hydroxylates HIF-1 alpha at 'Asn-803' in the C-terminal transactivation domain (CAD). Functions as an oxygen sensor and, under normoxic conditions, the hydroxylation prevents interaction of HIF-1 with transcriptional coactivators including Cbp/p300-interacting transactivator. Involved in transcriptional repression through interaction with HIF1A, VHL and histone deacetylases. Hydroxylates specific Asn residues within ankyrin repeat domains (ARD) of NFKB1, NFKBIA, NOTCH1, ASB4, PPP1R12A and several other ARD-containing proteins. Also hydroxylates Asp and His residues within ARDs of ANK1 and TNKS2, respectively. Negatively regulates NOTCH1 activity, accelerating myogenic differentiation. Positively regulates ASB4 activity, promoting vascular differentiation.
Research Articles on HIF1AN	**1.** MiR-31-5p plays an important role in HS formation by inhibiting FIH and regulating the HIF-1alpha pathway.
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