

Product information

HIF1AN, 1-349 aa

Human, Recombinant, *E.coli*

Cat. No. IBHIF0904

Full name: Hypoxia-inducible factor 1, alpha subunit inhibitor

NCBI Accession No.: NP_060372

Synonyms: Hypoxia-inducible factor asparagine hydroxylase, Factor inhibiting HIF-1, FIH1,

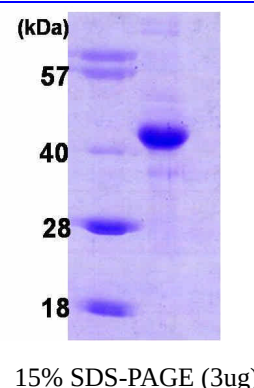
Description: Hypoxia-inducible factor 1, alpha subunit inhibitor (HIF1AN), a member of the Fe²⁺ and 2-oxoglutarate-dependent dioxygenase superfamily, is protein that hydroxylates a specific asparagine residue (Asn-803) within the HIF1α C-terminal transactivation domain. In normoxia, the HIF1AN-mediated hydroxylation of the HIF1α transactivation domain results in blockage of the HIF1α-p300/CBP interaction and represses transcriptional activity of HIF1α-targeted genes. Recombinant human HIF1AN protein was expressed in *E.coli* and purified by using conventional chromatography techniques.

Form: Liquid. In 20 mM Tris-HCl buffer (pH 8.0)

Molecular Weight: 40.2 kDa (349 aa), confirmed by MALDI-TOF

Purity: > 90% by SDS - PAGE

Concentration: 1 mg/ml (determined by Bradford assay)



Sequences of amino acids:

MAATAAEAVA SGSGEPREEA GALGPAWDES QLRYSFPTTR PIPRLSQSDP RAEELIENEE PVVLTDTNLV YPALKWDLEY LQENIGNGDF
SVYSASTHKF LYYDEKMAN FQNFKPRSNR EEMKFHEFVE KLQDIQQRGG EERLYLQQTLL NDTVGRKIVM DFLGFNWNWI NKQQGKRGWG
QLTSNLLLIG MEGNVTPAHY DEQQNFFAQI KGYKRCILFP PDQFECLYPY PVHPCDRQS QVDFDNPDYE RFPNFQNVVG YETVVGPGDV
LYIPMYWVHH IESLLNGGIT ITVNFYKGA PTPKRIEYPL KAHQKVAIMR NIEKMLGEAL GNPQEVGPLL NTMIKGRYN

General references:

Fukuba H., *et al.* (2008) *Neurosci Lett.* 433(3):209-14.

Li J., *et al.* (2007) *Mol Cell Biol.* 27(20):7345-53.

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.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.