

Recombinant human FIH-1/HIF-1AN protein

Catalog Number: HIF0904

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-349aa

UniProt No.

Q9NWT6

NCBI Accession No.

NP_060372

Alternative 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

PRODUCT SPECIFICATION

Molecular Weight

40.2 kDa (349aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0)

Purity

> 90% by SDS-PAGE

Tag

Non-Tagged

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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

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the HIF1 α C-terminal transactivation domain. In normoxia, the HIF1AN-mediated hydroxylation of the HIF1 α transactivation domain results in blockage of the HIF1 α -p300/CBP interaction and represses transcriptional activity of HIF1 α -targeted genes. Recombinant human HIF1AN protein was expressed in *E. coli* and purified by using conventional chromatography techniques.

Amino acid Sequence

MAATAAEAVA SGSSEPREEA GALGPAWDES QLRYSFPTTR PIPRLSQSDP RAEELIENEE PVVLTDTNLV YPALKWDLEY
LQENIGNGDF SVYSASTHKF LYYDEKKMAN FQNFKPRSNR EEMKFHEFVE KLQDIQQRGG EERLYLQOTL NDTVGRKIVM
DFLGFNWNWI NKQQKRGWG QLTSNLLIG MEGNVTPAHY DEQQNFFAQI KGYKRCILFP PDQFECLYPY PVHHPCDRQS
QVDFDNDPDE RFPNFQNVVG YETVVGPGDV LYIPMYWWHH IESLLNGGIT ITVNFWYKGA PTPKRIEYPL KAHQKVAIMR
NIEKMLGEAL GNPQEVGPLL NTMIKGRYN

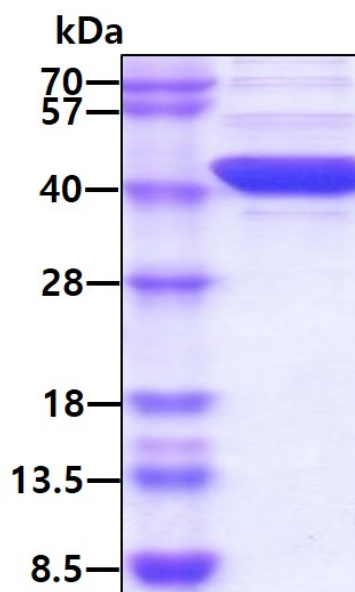
General References

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

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

DATA

SDS-PAGE



3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.