Recombinant human FIH-1/HIF-1AN protein

Catalog Number: HIF0904

PRODUCT INPORMATION

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 hydoxylates a specific asparagine residue (Asn-803) within

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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.

Amino acid Sequence

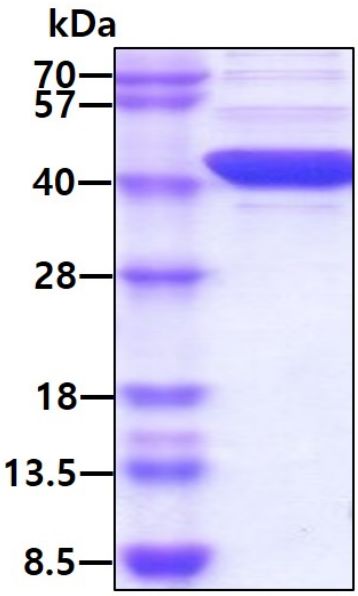
MAATAAEAVA SGSGEPREEA GALGPAWDES QLRSYSFPTR PIPRLSQSDP RAEELIENEE PVVLTDTNLV YPALKWDLEY LQENIGNGDF SVYSASTHKF LYYDEKKMAN FQNFKPRSNR EEMKFHEFVE KLQDIQQRGG EERLYLQQTL NDTVGRKIVM DFLGFNWNWI NKQQGKRGWG QLTSNLLLIG MEGNVTPAHY DEQQNFFAQI KGYKRCILFP PDQFECLYPY PVHHPCDRQS QVDFDNPDYE RFPNFQNVVG YETVVGPGDV LYIPMYWWHH IESLLNGGIT ITVNFWYKGA PTPKRIEYPL KAHQKVAIMR NIEKMLGEAL GNPQEVGPLL NTMIKGRYN

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



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