

32-3959: HIF1AN Recombinant Protein

Alternative Name : FIH1, FIH-1, HIF1AN, Factor Inhibiting HIF1A, Hypoxia-inducible factor 1-alpha inhibitor, Hypoxia-inducible factor asparagine hydroxylase, Factor inhibiting HIF-1, FLJ20615, FLJ22027, DKFZp762F1811.

Description

Source : Escherichia Coli. HIF1AN Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 349 amino acids and having a molecular mass of 40.2 kDa. The HIF1AN is purified by proprietary chromatographic techniques. Overexpression of the HIF1AN is linked with tumor aggressiveness in pancreatic endocrine tumors. HIF1AN hydroxylates Notch ICD at two residues that are crucial for the function of Notch ICD as a transactivator within cells and during neurogenesis and myogenesis. HIF1AN is commonly expressed in invasive breast carcinoma. The hypoxic response and survival recommends that tumour regulation of HIF1AN is an additional important mechanism for HIF pathway activation. HIF1AN is an asparaginyl hydroxylase enzyme that controls the transcriptional activity of hypoxia-inducible factor. FIH1 is a part of the Fe²⁺ and 2-oxoglutarate-dependent dioxygenase superfamily, FIH1 is protein that hydroxylates a specific asparagine residue (Asn-803) within the HIF1A C-terminal transactivation domain. In normoxia, the HIF1AN-mediated hydroxylation of the HIF1 transactivation domain which results in blockage of the HIF1A-p300/CBP interaction and represses transcriptional activity of HIF1A targeted genes.

Product Info

Amount : 50 µg
Purification : Greater than 90% as determined by SDS-PAGE.
Content : The protein solution contains 20mM Tris-HCl pH-8.
Storage condition : Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.
Amino Acid : MAATAAEAVA SGSGEPREEA GALGPAWDES QLRYSFPTR PIPRLSQSDP RAEELIENEE PVVLTDTNLV YPALKWDLEY LQENIGNGDF SVYSASTHKF LYYDEKKMAN FQNFKPRSNR EEMKFHEFVE KLQDIQQRGG EERLYLQOTL NDTVGRKIVM DFLGFNWNWI NKQQGKRGWG QLTSNLLIG MEGNVTPAHY DEQQNFFAQI KGYKRCILFP PDQFECLYPY PVHHPCDRQS QVDFDNPDIY RFPNFQNVVG YETVVGPGDV LYIPMYWWHH IESLLNGGIT ITVNFYWKGA PTPKRIEYPL KAHQKVAIMR NIEKMLGEAL GNPQEVGPLL NTMIKGRYN.

