9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

HIF1AN Human

Hypoxia-Inducible Factor-1 Alpha Inhibitor Human Recombinant
RCP1018

Product Overview

Name	HIF1AN Human
Description	
Hypoxia-Inducible Factor-1 Alpha Inhibitor Human Recombinant	
Accession (Primary)	Q9NWT6
Synonyms	
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.	
Introduction	
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 hydoxylates 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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered colorless solution.	
Formulation	
The protein solution (1mg/ml) contains 20mM Tris-HCl pH-8.	
Stability	
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.	
Purity	
Greater than 90% as determined by SDS-PAGE.	

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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.

Precautions

HIF1AN Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q9NWT6)