

Product datasheet for **AR09113PU-N**

HIF1AN / FIH1 (1-349) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	HIF1AN / FIH1 (1-349) human recombinant protein, 0.1 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MAATAAEAVA SGSSEPREEA GALGPAWDES QLRYSFPTR PIPRLSQSDP RAEELIENEE PVVLTDTNLV YPALKWDLEY LQENIGNGDF SVYSASTHKF LYYDEKKMAN FQNFKPRSNR EEMKFHEFVE KLQDIQQRGG EERLYLQQTL NDTVGRKIVM DFLGFNWNWI NKQQGKRGWG QLTSNLLIG MEGNVTPAHY DEQQNFFAQI KGYKRCILFP PDQFECLYPY PVHHPCDRQS QVDFDNPDIYE RFPNFQNWVG YETVWGP GDV LYIPMYWWHH IESLLNGGIT ITVNFWYKGA PTPKRIEYPL KAHQKVAIMR NIEKMLGEAL GNPQEVGPLL NTMIKGRYN
Predicted MW:	40.2 kDa
Concentration:	lot specific
Purity:	>90% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0)
Preparation:	Liquid purified protein
Protein Description:	Recombinant human HIF1AN protein was expressed in E.coli and purified by using conventional chromatography techniques.
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_060372
Locus ID:	55662
UniProt ID:	Q9NWT6
Cytogenetics:	10q24.31
Synonyms:	FIH1



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Summary:

Hydroxylates HIF-1 alpha at 'Asn-803' in the C-terminal transactivation domain (CAD). Functions as an oxygen sensor and, under normoxic conditions, the hydroxylation prevents interaction of HIF-1 with transcriptional coactivators including Cbp/p300-interacting transactivator. Involved in transcriptional repression through interaction with HIF1A, VHL and histone deacetylases. Hydroxylates specific Asn residues within ankyrin repeat domains (ARD) of NFKB1, NFKBIA, NOTCH1, ASB4, PPP1R12A and several other ARD-containing proteins. Also hydroxylates Asp and His residues within ARDs of ANK1 and TNKS2, respectively. Negatively regulates NOTCH1 activity, accelerating myogenic differentiation. Positively regulates ASB4 activity, promoting vascular differentiation.[UniProtKB/Swiss-Prot Function]

Protein Families:

Druggable Genome

Product images: