

**HIF1AN Blocking Peptide (N-term)**

Synthetic peptide

Catalog # BP1029a

**Specification**

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**HIF1AN Blocking Peptide (N-term) - Product Information**

Primary Accession

[Q9NWT6](#)**HIF1AN Blocking Peptide (N-term) - Additional Information**

Gene ID 55662

**Other Names**

Hypoxia-inducible factor 1-alpha inhibitor, 11411n4, Factor inhibiting HIF-1, FIH-1,  
Hypoxia-inducible factor asparagine hydroxylase, HIF1AN, FIH1

**Target/Specificity**

The synthetic peptide sequence is selected from aa 38-54 of HUMAN HIF1AN

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**HIF1AN Blocking Peptide (N-term) - Protein Information**

Name HIF1AN

Synonyms FIH1

**Function**

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.

**Cellular Location**

Nucleus. Cytoplasm. Cytoplasm, perinuclear region. Note=Mainly cytoplasmic localization, but

interaction with NOTCH1 results in nuclear localization and interaction with ABPA3 results in perinuclear localization in macrophages

### **HIF1AN Blocking Peptide (N-term) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

### **HIF1AN Blocking Peptide (N-term) - Images**

### **HIF1AN Blocking Peptide (N-term) - Background**

FIH1Encoded protein (factor inhibiting HIF-1)is a co-repressor that interacts with hypoxia-inducible factor 1(HIF-1) alpha and the von Hippel-Lindau tumor suppressor protein to mediate repression of HIF-1 transcriptional activity.