

HIF1AN Blocking Peptide (N-term)

Synthetic peptide

Catalog # BP1029a

Specification

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.