10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.622.0609

HIF1AN Blocking Peptide (C-term)

Synthetic peptide

Catalog # BP1029b

Specification

HIF1AN Blocking Peptide (C-term) - Product Information

Primary Accession	Q9NWT6
Other Accession	Q8BLR9, P59723

HIF1AN Blocking Peptide (C-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 301-316 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 (C-term) - Protein Information

Name HIF1AN

Synonyms FIH1

Function
Hydroxylates HIF-1 alpha at 'Asn-803' in the

HIF1AN Blocking Peptide (C-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.

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 (C-term) - Protocols

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

- Blocking Peptides