

**HIF - 1 {alpha} (556 - 574)**  
**Synthetic Peptide**  
**Catalog # SP2191a****Specification**

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**HIF - 1 {alpha} (556 - 574) - Product Information**

Primary Accession [Q98SW2](#)  
Other Accession [Q9I8A9](#), [Q9YIB9](#), [Q309Z6](#), [Q0PGG7](#), [Q9XTA5](#)  
Sequence **NH2-DLDLEMLAPYIPMDDDFQL-COOH**

**HIF - 1 {alpha} (556 - 574) - Additional Information**

**Gene ID** 100135944

**Other Names**

Hypoxia-inducible factor 1-alpha, HIF-1-alpha, HIF1-alpha, hif1a

**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.

**HIF - 1 {alpha} (556 - 574) - Protein Information**

**Name** hif1a

**Function**

Functions as a master transcriptional regulator of the adaptive response to hypoxia. Under hypoxic conditions, activates the transcription of over 40 genes, including erythropoietin, glucose transporters, glycolytic enzymes, vascular endothelial growth factor, HILPDA, and other genes whose protein products increase oxygen delivery or facilitate metabolic adaptation to hypoxia. Plays an essential role in embryonic vascularization, tumor angiogenesis and pathophysiology of ischemic disease.

**Cellular Location**

Cytoplasm {ECO:0000250|UniProtKB:Q16665}. Nucleus {ECO:0000250|UniProtKB:Q16665}. Nucleus speckle {ECO:0000250|UniProtKB:Q61221}. Note=Cytoplasmic in normoxia, nuclear translocation in response to hypoxia. {ECO:0000250|UniProtKB:Q16665}

**HIF - 1 {alpha} (556 - 574) - Images**