

Recombinant Mouse Hif1an Protein, Myc/DDK-tagged

Cat. No. Hif1an-3394M Lot. No. (See product label)

SPECIFICATION

Product Overview Purified recombinant protein of mouse full-length hypoxia-inducible factor 1, alpha subunit inhibitor (Hif1an), with C-terminal MYC/DDK tag, expressed in HEK293T cells.

Species Mouse

Source HEK293

Description Hydroxylates HIF-1 alpha at 'Asn-799' 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.

Molecular Mass 40.2 kDa

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Hif1an hypoxia-inducible factor 1, alpha subunit inhibitor [Mus musculus (house mouse)]
Official Symbol	Hif1an
Synonyms	HIF1AN; hypoxia-inducible factor 1, alpha subunit inhibitor; hypoxia-inducible factor 1-alpha inhibitor; hypoxia-inducible factor asparagine hydroxylase; FIH1; 2310046M24Rik; A830014H24Rik
Gene ID	319594
mRNA Refseq	NM_176958
Protein Refseq	NP_795932
UniProt ID	Q8BLR9

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