

Recombinant Mouse Hif1a protein, His/S-tagged

Cat. No. Hif1a-154M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Hif1a fused with His/S tag was expressed in E. coli.
Species	Mouse
Source	E.coli
Description	<p>Hypoxia-inducible factor-1 (HIF1) is a transcription factor found in mammalian cells cultured under reduced oxygen tension that plays an essential role in cellular and systemic homeostatic responses to hypoxia. HIF1 is a heterodimer composed of an alpha subunit and a beta subunit. The beta subunit has been identified as the aryl hydrocarbon receptor nuclear translocator (ARNT). This gene encodes the alpha subunit of HIF-1. Overexpression of a natural antisense transcript (aHIF) of this gene has been shown to be associated with nonpapillary renal carcinomas. Two alternative transcripts encoding different isoforms have been identified.</p>
Form	Lyophilized from sterile PBS, pH 7.4
Purity	> 95 % as determined by SDS-PAGE
Storage	Store at -70 centigrade. Avoid repeated freeze/thaw cycles.

GENE INFORMATION

Gene Name	Hif1a hypoxia inducible factor 1, alpha subunit [<i>Mus musculus</i>]
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Official Symbol	Hif1a
Synonyms	HIF1A; hypoxia inducible factor 1, alpha subunit; hypoxia-inducible factor 1-alpha; HIF1-alpha; HIF-1-alpha; ARNT-interacting protein; MOP1; bHLHe78; AA959795; HIF1alpha;
Gene ID	15251
mRNA Refseq	NM_010431
Protein Refseq	NP_034561
UniProt ID	Q61221
Chromosome Location	12 C3; 12 31.99 cM
Pathway	Adipogenesis, organism-specific biosystem; PI3K/Akt/mTOR signaling pathway, organism-specific biosystem; Pathways in cancer, organism-specific biosystem; PluriNetWork, organism-specific biosystem; Renal cell carcinoma, organism-specific biosystem; Renal cell carcinoma, conserved biosystem; mTOR signaling pathway, organism-specific biosystem;
Function	DNA binding; DNA binding; Hsp90 protein binding; histone acetyltransferase binding; histone deacetylase binding; protein binding; protein binding transcription factor activity; protein complex binding; protein heterodimerization activity; protein kinase binding; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; sequence-specific DNA binding transcription factor activity; sequence-specific distal enhancer binding RNA polymerase II transcription factor activity; signal transducer activity; transcription factor binding; transcription regulatory region DNA binding;

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