

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	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.
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 [Mus musculus]
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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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