Recombinant Rat Hif1a protein, His/S-tagged

Cat. No. Hif1a-153R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Hif1a fused with His/S tag was expressed in E. coli.
Species	Rat
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 (basic helix-loop-helix transcription factor) [Rattus norvegicus]

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Official Symbol	Hif1a
Synonyms	HIF1A; hypoxia-inducible factor 1, alpha subunit (basic helix-loop-helix transcription factor); hypoxia-inducible factor 1-alpha; HIF1 alpha; HIF1-alpha; HIF-1 alpha; HIF-1-alpha; hypoxia-inducible factor 1 alpha; hypoxia inducible factor 1, alpha subunit; MOP1;
Gene ID	29560
mRNA Refseq	NM_024359
Protein Refseq	NP_077335
UniProt ID	O35800
Chromosome Location	6q24
Pathway	Adipogenesis, organism-specific biosystem; Pathways in cancer, organism-specific biosystem; Renal cell carcinoma, organism-specific biosystem; Renal cell carcinoma, conserved biosystem; mTOR signaling pathway, organism-specific biosystem; mTOR signaling pathway, conserved biosystem;
Function	DNA binding; DNA binding; Hsp90 protein binding; double-stranded DNA binding; histone acetyltransferase binding; histone acetyltransferase binding; histone deacetylase binding; protein binding transcription factor activity; protein complex binding; protein heterodimerization activity; protein heterodimerization activity; protein heterodimerization activity; protein kinase binding; sequence-specific DNA binding; sequence-specific DNA binding; contributes_to sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; sequence-specific DNA binding transcription factor activity; sequence-specific distal enhancer binding RNA

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	polymerase II transcription factor activity; contributes_to sequence-specific distal enhancer binding RNA polymerase II transcription factor activity; signal transducer activity; transcription factor binding; transcription regulatory region DNA binding; transcription regulatory region DNA binding;

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA