

Recombinant Rat Epas1 protein, His/S-tagged

Cat. No. Epas1-152R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Epas1 fused with His/S tag was expressed in E. coli.
Species	Rat
Source	E.coli
Description	Transcription factor involved in the induction of oxygen regulated genes. Binds to core DNA sequence 5'-[AG]CGTG-3' within the hypoxia response element (HRE) of target gene promoters. Regulates the vascular endothelial growth factor (VEGF) expression and seems to be implicated in the development of blood vessels and the tubular system of lung. May also play a role in the formation of the endothelium that gives rise to the blood brain barrier. Potent activator of the Tie-2 tyrosine kinase expression. Activation requires recruitment of transcriptional coactivators such as CREBPB and probably EP300. Interaction with redox regulatory protein APEX seems to activate CTAD.
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	Epas1 endothelial PAS domain protein 1 [Rattus norvegicus]
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Official Symbol	Epas1
Synonyms	EPAS1; endothelial PAS domain protein 1; endothelial PAS domain-containing protein 1; EPAS-1; HIF2 alpha; HIF2-alpha; HIF-2 alpha; HIF-2-alpha; hypoxia inducible factor 2a; hypoxia-inducible factor 2 alpha; hypoxia-inducible factor 2-alpha; hypoxia inducible factor 2, alpha subunit; HLF; Hif2a;
Gene ID	29452
mRNA Refseq	NM_023090
Protein Refseq	NP_075578
UniProt ID	Q9JHS1
Chromosome Location	6q12
Pathway	Adipogenesis, organism-specific biosystem; Pathways in cancer, organism-specific biosystem; Renal cell carcinoma, organism-specific biosystem; Renal cell carcinoma, conserved biosystem;
Function	DNA binding; histone acetyltransferase binding; histone acetyltransferase binding; protein heterodimerization activity; protein heterodimerization activity; Contributes_to 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 DNA binding transcription factor activity; signal transducer activity; transcription factor binding; transcription factor binding;