Recombinant Mouse Epas1 protein, His/S-tagged

Cat. No. Epas1-151M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Epas1 fused with His/S tag was expressed in E. coli.
Species	Mouse
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 [Mus musculus]

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Official Symbol	Epas1
Synonyms	EPAS1; endothelial PAS domain protein 1; endothelial PAS domain-containing protein 1; mHLF; EPAS-1; HIF2-alpha; HIF-2-alpha; Hif like protein; HIF-related factor; HIF1alpha-like factor; HIF1 alpha-like factor; HIF-1-alpha-like factor; HLF (HIF1alpha-like factor); hypoxia-inducible factor 2-alpha; hypoxia inducible transcription factor 2alpha; HLF; HRF; MOP2; HIF2A; bHLHe73; HIF-2alpha;
Gene ID	13819
mRNA Refseq	NM_010137
Protein Refseq	NP_034267
UniProt ID	P97481
Chromosome Location	17; 17 E4
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; DNA binding; DNA binding; histone acetyltransferase binding; protein heterodimerization activity; protein heterodimerization activity; contributes_to sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; sequence-specific DNA binding transcription factor activity; signal transducer activity; transcription factor binding; transcription factor binding;

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