

Recombinant Mouse Endothelial PAS Domain-Containing Protein 1 (Epas1), N-His

Cat. No.: AP4C966

Product Type: Animal Proteins

Size: 10 µg; 50 µg; 200 µg; 1 mg; 5 mg

Product Overview

BioVenic's Recombinant Mouse Endothelial PAS Domain-Containing Protein 1 (Epas1), N-His is a recombinant protein expressed from *E.coli*. Its predicted molecular weight is 37.2 kDa. The purity is > 97%.

Specifications

Type	Recombinant Protein
Species	Mouse
Expression System	<i>E.coli</i>
Purity	> 97%
Endotoxin	<1.0 EU per 1µg (determined by the LAL method)
Predicted Molecular Weight	37.2 kDa
Physical State	Lyophilized
Formulation	20 mM Tris, 150 mM NaCl, pH8.0, containing 1 mM EDTA, 1 mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.

Target Information

Mouse Endothelial PAS Domain-Containing Protein 1 (Epas1), also known as Hypoxia-Inducible Factor 2α (HIF-2α), is a transcription factor that plays a crucial role in the cellular response to hypoxia. It regulates the expression of genes involved in erythropoiesis, angiogenesis, and glucose metabolism. Epas1 is highly expressed in tissues such as the kidney and liver, where it promotes the production of erythropoietin (EPO) to increase red blood cell production. In mouse models, Epas1 deficiency leads to severe developmental defects, including impaired angiogenesis and embryonic lethality. Additionally, Epas1 is implicated in cancer progression, where it can drive tumor growth by enhancing angiogenesis and metabolic adaptation to hypoxic conditions. Its functions highlight the importance of Epas1 in maintaining oxygen homeostasis and tissue development.

Protein	Mouse Endothelial PAS Domain-Containing Protein 1 (Epas1)
Protein Synonym	EPAS-1; HIF-1-alpha-like factor
Gene ID	13819

Shipping and Storage

This product is shipped with ice packs. Lyophilized protein can be stored at -80°C for 1 year. After reconstitution, the protein solution can be stored at 2-8°C for 2-7 days.

User Note

Always centrifuge tubes before opening. Avoid mixing by vortexing or pipetting. Reconstitute in 20 mM Tris, 150 mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Aliquot the reconstituted solution to minimize freeze-thaw cycles.

The product is for research use only. Not for commercial, prophylactic, diagnostic, or therapeutic applications. Please determine the purpose of the product before purchasing. For further information and inquiry, please contact us.