

Recombinant Bovine Hypoxia-Inducible Factor 1-Alpha (HIF1A), N-His

Cat. No.: AP9C404

Product Type: Animal Proteins

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

Product Overview

BioVenic's Recombinant Bovine Hypoxia-Inducible Factor 1-Alpha (HIF1A), N-His is a recombinant protein expressed from *E.coli*. Its predicted molecular weight is 17.3 kDa. The purity is >97% (SDS-PAGE).

Specifications

Type	Recombinant Protein
Species	Bovine
Expression System	<i>E.coli</i>
Purity	>97% (SDS-PAGE)
Endotoxin	< 1 EU/µg
Predicted Molecular Weight	17.3 kDa
Molecular Weight	16 kDa
Physical State	Lyophilized
Formulation	The buffer before lyophilization is 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.

Target Information

Bovine hypoxia-inducible factor 1-alpha (HIF1A) is a protein found in Bovines and other mammals that plays a crucial role in cellular responses to low oxygen levels, or hypoxia. It is a transcription factor that regulates the expression of genes involved in processes such as angiogenesis, glycolysis, and cell survival. In Bovines, HIF1A is involved in various physiological processes, including ovarian follicle development, ovulation, and early luteal angiogenesis. It is also associated with the regulation of steroidogenic activity and oocyte development, which are essential for reproductive success in cattle.

Protein	Bovine Hypoxia-Inducible Factor 1-Alpha (HIF1A)
Protein Synonym	HIF1-A; MOP1; PASD8; Basic Helix-Loop-Helix Transcription Factor; ARNT-interacting protein; Basic-helix-loop-helix-PAS protein MOP1; Class E basic helix-loop-helix protein 78

Gene ID [281814](#)

UniProt ID [Q9XTA5](#)

Shipping and Storage

This product is shipped with dry ice. It is recommended to aliquot as needed and store at -80°C upon receipt. Reconstituted protein solution can be stored at 4°C for 1 week, at < -80°C for 12 months. Avoid repeated freezing and thawing.

User Note

Always centrifuge tubes before opening. Avoid mixing by vortexing or pipetting. Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Aliquot the reconstituted solution to minimise 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.