

Recombinant Equine Insulin-Like Growth Factor II (IGF2), N-His

Cat. No.: AP9C971

Product Type: Animal Proteins

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

Product Overview

BioVenic's Recombinant Equine Insulin-Like Growth Factor II (IGF2), N-His is a recombinant protein expressed from *E.coli*. Its predicted molecular weight is N/A. The purity is >97% (SDS-PAGE).

Specifications

Type	Recombinant Protein
Species	Equine
Expression System	<i>E.coli</i>
Purity	>97% (SDS-PAGE)
Endotoxin	< 1 EU/µg
Predicted Molecular Weight	N/A
Physical State	Lyophilized
Formulation	The buffer before lyophilization is PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.

Target Information

Equine Insulin-like Growth Factor 2 (IGF-2) is a crucial player in various physiological processes, particularly in growth and development. It is known to promote tissue growth, lower blood sugar levels, and play a significant role in fetal development. IGF-2 can interact with IGF1R, IGF2R, and insulin receptor A/B (IR-A/B), where it activates IGF1R to stimulate growth and regulate cell proliferation, differentiation, and metabolism, and activates IR-A to promote mitosis and IR-B to promote metabolism. Moreover, IGF-2 has been implicated in metabolic diseases and is involved in the regulation of luteal function, potentially influencing progesterone production.

Protein	Equine Insulin-Like Growth Factor II (IGF2)
Protein Synonym	INSIGF; IGF-II; Somatomedin A; Preptin; Insulin-like growth factor II Ala-25 Del
Gene ID	100034182
UniProt ID	P51459

Shipping and Storage

This product is shipped with dry ice. It is recommended to aliquote 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.

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. Aliquote 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.