

Recombinant Porcine Insulin Like Growth Factor 1 (IGF1), N-GST

Cat. No.: AP7F156

Product Type: Animal Proteins

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

Product Overview

BioVenic's Recombinant Porcine Insulin Like Growth Factor 1 (IGF1), N-GST is a recombinant protein expressed from *E.coli* expression system. Its predicted molecular weight is 33.6 kDa. The purity is >90% (SDS-PAGE). The endotoxin level is <1 EU/µg (LAL). It can be used as a positive control or as an immunogen.

Specifications

Type	Recombinant Protein
Species	Swine
Expression System	<i>E.coli</i>
Purity	>90% (SDS-PAGE)
Endotoxin	<1 EU/µg (LAL)
Predicted Molecular Weight	33.6 kDa
Molecular Weight	34 kDa
Physical State	Lyophilized
Formulation	PBS, pH7.4, containing 0.01% SKL, 5% Trehalose.

Target Information

The insulin-like growth factors (IGF-1 and IGF-2) and their soluble, membrane- and extracellular matrix (ECM)-associated binding proteins and receptors constitute an endocrine/autocrine/paracrine-acting system that mediates growth, differentiation and/or apoptosis of vertebrate cells. IGF1 is an important regulator of body growth, development, and metabolism of pigs.

Protein	Porcine Insulin Like Growth Factor 1 (IGF1)
Protein Synonym	IGF I, IGF-1, IGF-I, IGF1, Insulin-Like Growth Factor 1, Insulin-Like Growth Factor I, Mechano Growth Factor, MGF, Somatomedin C
Gene ID	397491
UniProt ID	F1SRJ7

Shipping and Storage

This product is shipped with dry ice. Avoid repeated freezing and thawing. Store for 4 weeks at 2-8°C, for 12 months at -80°C.

User Note

Always centrifuge tubes before opening. Avoid mixing by vortexing or pipetting. Reconstitute in 10 mM PBS (pH 7.4) to a concentration of 0.1-1.0 mg/mL. Aliquote the reconstituted solution to minimise freeze-thaw cycles.

Reference

Liao, W. *et al.* A poly(dA:dT) tract in the *IGF1* gene is a genetic marker for growth traits in pigs. *Animals*. 2022, 12: 3316.

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.