

Recombinant Bovine Kit Ligand (KITLG)

Cat. No.: AP9C367

Product Type: Animal Proteins

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

Product Overview

BioVenic's Recombinant Bovine Kit Ligand (KITLG) is a recombinant protein expressed from *E.coli*. Its predicted molecular weight is N/A. The purity is >95% (SDS-PAGE).

Specifications

Type	Recombinant Protein
Species	Bovine
Expression System	<i>E.coli</i>
Purity	>95% (SDS-PAGE)
Endotoxin	< 1 EU/µg
Predicted Molecular Weight	N/A
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

Bovine kit ligand (KITLG), also known as stem cell factor (SCF) or mast cell growth factor (MGF), is a growth factor that plays a crucial role in the development and function of various cell types, including hematopoietic stem cells, melanocytes, and germ cells. In cattle, KITLG is essential for the survival, proliferation, and differentiation of these cells. It is expressed in multiple tissues and is particularly important for processes such as embryonic development, pigmentation, and the maintenance of the hematopoietic system. KITLG also contributes to immune regulation and has been implicated in the pathogenesis of diseases like mastitis due to its role in immune cell function. The protein's effects are mediated through binding to the c-Kit receptor, activating intracellular signaling pathways that promote cell growth and survival.

Protein	Bovine Kit Ligand (KITLG)
Protein Synonym	OS-M

Gene ID [281885](#)

UniProt ID [Q28132](#)

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. 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. 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.