

Recombinant Bovine Peptidyl-Prolyl Cis-Trans Isomerase A (PPIA)

Cat. No.: AP9C321

Product Type: Animal Proteins

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

Product Overview

BioVenic's Recombinant Bovine Peptidyl-Prolyl Cis-Trans Isomerase A (PPIA) is a recombinant protein expressed from *E.coli*. Its predicted molecular weight is 18.9 kDa. 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	18.9 kDa
Molecular Weight	19 kDa
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 cyclophilin A (CyPA) is a multifaceted protein involved in various biological processes in cattle, including immune response, protein folding, and signaling. This protein, known for its peptidyl-prolyl isomerase activity, is crucial during inflammation as it is secreted from cells and helps recruit inflammatory cells to the site of infection or injury. CyPA's chemotactic activity is significant for leukocyte trafficking, and it interacts with CD147 on the cell surface to mediate inflammatory responses. Moreover, it has been identified as a potential therapeutic target for treating inflammation due to its role in the migration of immune cells during the onset of mastitis, a common inflammatory disease in cattle.

Protein	Bovine Peptidyl-Prolyl Cis-Trans Isomerase A (PPIA)
Protein Synonym	PPIA; CyP-A; CYPH; Peptidylprolyl Isomerase A; Peptidyl-Prolyl Isomerase A; Peptidyl-prolyl cis-trans isomerase A; Cyclosporin A-binding protein

Gene ID [613401](#)

UniProt ID [P62935](#)

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.