

Recombinant Bovine Retinol-Binding Protein 1 (RBP1)

Cat. No.: AP9C305

Product Type: Animal Proteins

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

Product Overview

BioVenic's Recombinant Bovine Retinol-Binding Protein 1 (RBP1) is a recombinant protein expressed from *E.coli*. Its predicted molecular weight is 17.3 kDa. The purity is >95% (SDS-PAGE).

Specifications

Type	Recombinant Protein
Species	Bovine
Expression System	<i>E.coli</i>
Purity	>95% (SDS-PAGE)
Endotoxin	< 1EU/µg
Predicted Molecular Weight	17.3 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 retinol binding protein 1 (RBP1) is a crucial protein involved in the transport of vitamin A, or retinol, within the Bovine body. RBP1 binds retinol and transports it to target tissues, including the retina, where it plays a vital role in vision. In cattle, RBP1 ensure s that retinol is delivered to the eye, where it participates in the visual cycle, ensuring the regeneration of visual pigments and maint aining retinal health. The protein is also essential for the proper development and function of the reproductive, immune, and respiratory systems, as well as other tissues that rely on retinol for their normal functioning.

Protein	Bovine Retinol-Binding Protein 1 (RBP1)
Protein Synonym	Cellular retinol-binding protein (CRBP); Cellular retinol-binding protein I (CRBP-I)
Gene ID	537379
UniProt ID	P02694

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.