

Recombinant Bovine Complement C3 (C3), N-His

Cat. No.: AP9C532

Product Type: Animal Proteins

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

Product Overview

BioVenic's Recombinant Bovine Complement C3 (C3), N-His is a recombinant protein expressed from *E.coli*. Its predicted molecular weight is 27.8 kDa. The purity is >95% (SDS-PAGE).

Specifications

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| Type | Recombinant Protein |
| Species | Bovine |
| Expression System | <i>E.coli</i> |
| Purity | >95% (SDS-PAGE) |
| Endotoxin | < 1 EU/µg |
| Predicted Molecular Weight | 27.8 kDa |
| Molecular Weight | 31 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 complement C3, a 190 kDa glycoprotein, is a central component of the complement system in cattle, which is crucial for immune defense. It is involved in all three pathways of the complement system: the classical, lectin, and alternative pathways. C3 is activated through proteolysis, leading to the formation of C3b, which covalently binds to immune complexes and invading pathogens, opsonizing them for phagocytosis and clearance.

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| Protein | Bovine Complement C3 (C3) |
| Protein Synonym | ASP; CPAMD1; Complement Protein C3; C3 and PZP-like alpha-2-macroglobulin domain-containing protein 1; C3a anaphylatoxin; Acylation stimulating protein |
| Gene ID | 280677 |
| UniProt ID | Q2UVX4 |

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 minimize 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.