

## Recombinant Bovine Beta-Casein, C-His

Cat. No.: AP1C246

Product Type: Animal Proteins

Size: 50 µg; 100 µg; 1 mg

### Product Overview

BioVenic's Recombinant Bovine Beta-Casein, C-His is a recombinant protein expressed from *E.coli*. Its predicted molecular weight is 24.5 kDa. The purity is >95% (SDS-PAGE).

### Specifications

Type	Recombinant Protein
Species	Bovine
Expression System	<i>E.coli</i>
Purity	>95% (SDS-PAGE)
Predicted Molecular Weight	24.5 kDa
Molecular Weight	29.4 kDa
Physical State	Liquid
Formulation	PBS, pH7.4.

### Target Information

Bovine beta-casein is a significant protein in bovine milk, known for its role in the formation of casein micelles, which are essential for the stability and texture of dairy products. It is an inherently disordered protein that forms complex aggregates with calcium phosphate in milk. Beta-casein is also the main source of bioactive peptides, which can be released during gastrointestinal digestion, offering various health benefits such as antihypertensive, antimicrobial, and opioid-like effects. Moreover, it has been shown to have antioxidant properties and can inhibit pathogenic bacteria, highlighting its potential in functional food applications.

Protein	Bovine Beta-Casein (CSN2)
Gene ID	<a href="#">281099</a>
UniProt ID	<a href="#">P02666</a>

### Shipping and Storage

This product is shipped with dry ice. It is recommended to aliquote as needed and store at  $-80^{\circ}\text{C}$  upon receipt. Reconstituted protein solution can be stored at  $4^{\circ}\text{C}$  for 1 week, at  $< -80^{\circ}\text{C}$  for 12 months.

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## 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.

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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.