

Recombinant Bovine Natriuretic Peptides A (NPPA)

Cat. No.: AP9C454

Product Type: Animal Proteins

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

Product Overview

BioVenic's Recombinant Bovine Natriuretic Peptides A (NPPA) is a recombinant protein expressed from *E.coli*. Its predicted molecular weight is 19.8 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	19.8 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 natriuretic peptides A, also known as A-type natriuretic peptides, are a group of hormones that include atrial natriuretic peptide (ANP), brain natriuretic peptide (BNP), and C-type natriuretic peptide (CNP). These peptides are synthesized primarily in the heart and have similar structures. They exert their biological actions, which include natriuresis (increased excretion of sodium in the urine) and vasodilation (widening of blood vessels), by binding to specific receptors on target organs. In Bovine, these peptides play a role in maintaining cardiovascular homeostasis, regulating blood pressure, and managing fluid balance within the body. They also have been shown to have effects on the renal system, potentially influencing the development and homeostasis of blood vessels and lymphatic vessels, similar to their roles in other mammals.

Protein	Bovine Natriuretic Peptides A (NPPA)
Protein Synonym	ANH; ANF; CDD; Atrial Natriuretic Factor; Atrial Natriuretic Hormone; Atriopeptin; Cardionatrine; Cardiodilatin
Gene ID	281355

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.