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Cytochrome-C Bovine

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NTP0019

Product Overview

Name	Cytochrome-C Bovine

Description

Cytochrome-C Bovine

Synonyms

CYCS, CYC, cyt c

Source

Bovine.

Physical Appearance

Reddish or dark brown crystalline powder.

Formulation

The protein (1mg/ml) was lyophilized with no additives.

Stability

Lyophilized Cytochrome-C Bovine although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Cytochrome-C Bovine should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Purity

Greater than 99.0%.

Solubility

It is recommended to reconstitute the lyophilized Cytochrome-C Bovine in sterile 18MΩ-cm H 2 O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Background

Bovine Cytochrome c in Health and Disease: Understanding the behavior of Cytochrome c in bovine systems has implications for veterinary medicine and livestock health. Alterations in mitochondrial function, reflected in changes in Cytochrome c dynamics, may be indicative of metabolic disorders, oxidative stress, or other pathological conditions. Bovine Cytochrome c studies contribute to our knowledge of mitochondrial dysfunction in diseases affecting cattle, potentially paving the way for diagnostic and therapeutic strategies. Challenges and Future Directions: While the study of Cytochrome c in bovine systems provides a wealth of insights, challenges persist. Fine-tuning experimental

methodologies, exploring the interplay with other mitochondrial components, and deciphering the specificities in bovine systems are critical considerations for advancing our understanding. Additionally, linking changes in Cytochrome c behavior to specific physiological outcomes in cattle poses a challenge, requiring comprehensive investigations in diverse contexts. Bovine Cytochrome c emerges as a sentinel player in the intricate dance of cellular respiration, offering a window into the energetic dynamics of bovine mitochondria. Its structural insights, functional significance, and implications in health and disease position it as a central focus in understanding cellular bioenergetics in cattle. As researchers continue to unravel the molecular intricacies of bovine Cytochrome c, they not only deepen our understanding of mitochondrial function but also contribute to advancements in veterinary medicine and the optimization of livestock health, shaping the future of sustainable and healthy cattle farming practices.

Precautions

Cytochrome-C Bovine is for research use only and not for use in diagnostic or therapeutic procedures.

Background

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