Cytochrome c from bovine heart

Catalog Number C3131
Storage Temperature –20 °C

CAS RN 9007-43-6

Product Description
Molecular mass: 12,327 Da (calculated)
pl: 10.37–10.80
λ_max: 550 nm (reduced)
Extinction coefficient: E_mM = 28.0 (reduced)

Cytochrome c is an electron-carrying mitochondrial protein. It is a small heme protein containing a single polypeptide chain and a single heme group, which is covalently attached to the polypeptide. The ready fluctuation of cytochrome c within the cell between ferrous and ferric states makes it an efficient biological electron-transporter. Cytochrome c plays a vital role in cellular oxidation in both plants and animals. It is generally regarded as a universal catalyst of respiration, forming the essential electron-bridge between the respirable substrates and oxygen.

This product is mainly the oxidized form of cytochrome c, often referred to as ferricytochrome c. Reduced cytochrome c can be prepared utilizing either sodium dithionite or sodium ascorbate, followed by gel filtration.

Precautions and Disclaimer
This product is for R&D use only, not for drug, household, or other uses. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices.

Preparation Instructions
Cytochrome c is soluble in water (10 mg/ml), yielding a dark red to red brown solution.

Cytochrome c solutions can be prepared in 50 mM phosphate buffer at neutral pH. Solutions can be stored frozen as single-use aliquots at –20 °C for long term storage, or at 2–8 °C for 1–2 weeks.

References

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