

عنوان مقاله:

Oxidation of ABTS by Cytochrome C in SDS Reverse Nano-micelles

محل انتشار:

دومین کنگره بین المللی علوم و فناوری نانو (سال: 1387)

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خلاصه مقاله:

It has been known that cytochrome c (Cyt c) functions in the electron transfer on the inner mitochondrial membrane. Cyt c plays a different, not less universal role in programmed cell death by interacting with anionic phospholipids: a mitochondria specific phospholipid, cardiolipin (CL), and plasma membrane phosphatidylserine (PS) [1]. A bilayer-bound cytochrome c showed peroxidase activity, and which is also induced by structural perturbation based on the electrostatic interaction between synthetic anionic amphiphiles and the cationic charged domain of cytochrome c [2-4]. Interaction of the SDS with cytochrome c can be considered to mimic binding of the protein to the mitochondrial membrane during apoptosis in vivo [5]. Therefore it is expected that cytochrome c solubilized in SDS, an anionic surfactant, reverse micelles enhances the peroxidase activity with the structural disruption based on the electrostatic interaction with surfactant headgroups

کلمات کلیدی:

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