Title

The bioavailability of reduced coenzyme Q10 water-dispersive powder (ShiroQ[®])after single oral administration.

Abstract

In this study, we showed the bioavailability of ubiquinol (QH) in the form of water-dispersive powder(ShiroQ[®]). Two groups of 5 healthy young subjects received single oral administration of 100 mg of QH in the form of a soft capsule containing QH dissolved in safflower oil or 40% water-dispersive powder(ShiroQ[®]) in the fasting period, and changes in the plasma QH concentration were monitored over time. The plasma QH concentration before administration was $0.68 \pm 0.08 \ \mu\text{g/ml}$. Tmax was 6 hours after the administration. Cmax values compared with the pre-administration baseline in the soft capsule and ShiroQ[®] groups were 0.4 ± 0.21 and $0.89 \pm 0.27 \ \mu\text{g/ml}$, respectively, and AUC_{0-24hr} values were 3.59 ± 1.63 and $9.68 \pm 2.35 \ \mu\text{g}\cdot\text{h/ml}$, respectively. The water-dispersive powder form of QH (ShiroQ[®]) exhibited superior bioavailability even when administered in the fasting period.

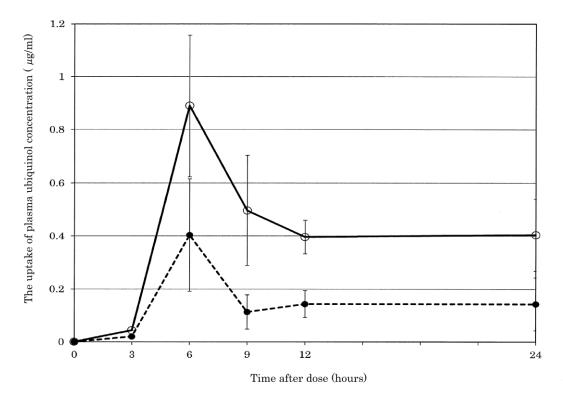


Fig. 1. The uptake of plasma ubiquinol concentration-time curves after single oral administration.

👄 ; Ubiquinol 40% Water-dispersive Powder (ShiroQ) 🛛 🗢 ; Soft gelatin capsule (Ubiquinol with Safflower oil, etc)

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