

论文 RP-HPLC法测定家兔血浆中西红花苷-1浓度及其药代动力学研究

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摘要:

关键词: 西红花苷-1 药代动力学 反相高效液相色谱法

Determination of crocin-1 in rabbit plasma and the pharmacokinetics by RP-HPLC

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Abstract:

AimTo develop a sensitive and specific HPLC method for the determination of crocin-1 in rabbit plasma, and study the pharmacokinetics in rabbit. MethodsAfter iv administration of crocin-1 in rabbit, the sample could be well purified after precipitation of protein with methanol. Waters spherisorb C18 column (250 mm×4.6 mm ID, 5 μm) was used and the mobile phase consisted of methanol-acetonitrile-1% aqueous acetic acid (15:10:50) at the flow rate of 1 mL·min⁻¹, and the UV detection wave length was 440 nm. The column temperature is 25 °C. ResultsThe calibration curve was linear (*r*=0.999 7) in the range from 0.86 to 27.54 mg·L⁻¹ for crocin-1. The lowest detectable concentration of crocin-1 was 0.42 mg·L⁻¹. After given iv crocin-1 in rabbit, the concentration-time curves of crocin-1 was shown to fit two-compartment open model. ConclusionThis method is proved to be rapid, precise and reliable enough to be applied to the pharmacokinetics studies of crocin-1 in rabbit.

Keywords: pharmacokinetics RP-HPLC crocin-1

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