

Pharmacokinetics Analysis of Copen, a unique anticancer Semi artificial by-product of Osthole, in Rats when Intragastric and endovenous Administration

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Abstract

Copen is one in all of the key semi artificial derivatives of osthole with apparent anticancer interest. certainly the bioavailability and gender-related pharmacokinetic properties of copen in rats were decided during this look at. Sprague-Dawley rats were intragastrically and intravenously administrated of various doses of copen, severally. The concentrations of copen in rat plasma had been decided with the aid of a LC-MS/MS methodology. Pharmacokinetic parameters had been calculable employing a drug and statistics (DAS) software system. implemented mathematics analysis become carried out victimization freelance two-sample t-check with p-values but 0.05 due to the fact the level of significance. The outcomes indicated that maximum plasma concentrations (Cmax) for copen have been finished at nine.17-14.17 min put up-intragastric dosing; the removal half-lifestyles ($t_{1/2}$) of copen when intragastric dosing turned into 196.55-302.16 min. whilst intragastric administration of copen, the spearman's rank coefficient of correlation (r_s) of Cmax-Dose turned into zero.49810 ($p=zero.0023$), and also the r_s of AUC_{0-t}-Dose turned into 0.74634

Creation

these days, the energetic compounds from historic chinese language medicine (TCM) have attracted

