

Flumecinol, a novel inducer of testosterone 16 α -hydroxylation in Male rats

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1. Flumecinol, a new inducer of the cytochrome P-450 monooxygenases, was studied in rats as a possible effector of liver microsomal testosterone oxidases. The drug enhanced the total content of liver cytochrome P-450 in immature and adult rats. 2. When total testosterone oxidation activity was compared in liver microsomes of treated and untreated rats, no differences in activities were observed in 60-day-old-rats, but a slight decrease was found in 35-day-old treated rats. 3. Several regio- and stereo-specific hydroxylases were modified by flumecinol administration; in 35-day-old rats only 16 α -hydroxylation was induced, whereas in 60-day-old rats a slight increase in 2 α -hydroxylation was also observed. © 1990 Informa UK Ltd All rights reserved: reproduction in whole or part not permitted.