Penetration of the Antiestrogen ICI 182,780 into Brain and Hypothalamus Tissues of Ovariectomized Sprague-Dawley Rats

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INTRODUCTION

Materials and Methods

Penetration of the Antiestrogen ICI 182,780 into Brain and Hypothalamus Tissues of Ovariectomized Sprague-Dawley Rats

HYPOTHESIS AND GOALS

RESULTS

Table 1. Pharmacokinetic profiles of ICI 182,780 (1.0 mg/kg, subcutaneous, 3 d) in plasma and brain and hypothalamic tissues of ovariectomized Sprague-Dawley rats.

<table>
<thead>
<tr>
<th>Time (hr)</th>
<th>Plasma</th>
<th>Brain</th>
<th>Hypothalamus</th>
<th>Tissue/Plasma Ratio</th>
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<td>50</td>
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<tr>
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REFERENCES


This study was sponsored by Wyeth Research.

SUMMARY

CONCLUSION

Figure 1. ICI 182,780 crosses the blood-brain barrier and penetrates into brain and hypothalamic tissues.

Figure 2. ICI 182,780 blocks estrogenic actions in the morphine-dependent model of hot flush but showed estrogen-like effects when administered alone.

Figure 3. ICI 182,780 blocks estrogenic actions on body weight but showed estrogen-like effects when administered alone.

Figure 4. ICI 182,780 does not have estrogen-like effects in the uterus at 1.0 or 3.0 mg/kg/d for 6 d.