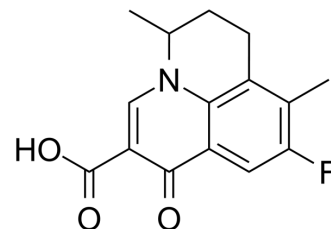


## Ibafloxacin

Cat. No.:	HY-U00214
CAS No.:	91618-36-9
Molecular Formula:	C <sub>15</sub> H <sub>14</sub> FNO <sub>3</sub>
Molecular Weight:	275.27
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

Description	Ibafloxacin (R835) is a fluoroquinolone antibiotic agent that is developed exclusively for veterinary use.
In Vivo	<p>The pharmacokinetic behavior of Ibafloxacin is studied after intravenous administration of a single dose of 15 mg/kg to 6 healthy lactating goats. Plasma concentrations of Ibafloxacin are determined by high-performance liquid chromatography with fluorescence detection. After IV injection Ibafloxacin shows very rapid initial distribution, with a mean half-life of 0.35 h, follows by slower elimination, with a mean half-life of 3.76 h. The elimination half-life of Ibafloxacin after oral administration has been reported to be 3.83 h in dogs and 3.00 h in cats<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

### PROTOCOL

Animal Administration <sup>[1]</sup>	<p>Goats<sup>[1]</sup></p> <p>Six Murciano-Granadina female goats 52 to 58 kg in body weight (BW) and 3 to 4 y of age are used. A 5% aqueous solution of Ibafloxacin is prepared from the pure substance and sterilized. The solution is administered by the IV route as a single dose of 15 mg/kg BW. Blood samples (4 mL) are collected from the contralateral jugular vein into heparinized tubes at 0, 5, 10, 15, 30, and 45 min and at 1, 1.5, 2, 4, 6, 8, 10, 12, 24, 32, 48, and 72 h after drug administration. The samples are centrifuged at 1500× g for 15 min, and then the plasma is removed and stored at -45°C until assayed. Milk samples are collected before and at 1, 2, 4, 6, 12, 24, 32, 48, and 72 h after complete evacuation of the udder at each collection period. The concentration of Ibafloxacin is measured in plasma and milk by a modified high-performance liquid chromatography (HPLC) method.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>
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### REFERENCES

[1]. Marín P, et al. Pharmacokinetics and milk penetration of ibafloxacin after intravenous administration to lactating goats. Can J Vet Res. 2007 Jan;71(1):74-6.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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