# Product Data Sheet

Product Name: Ibafloxacine (R835)
Cat. No.: GC33988

## Chemical Properties

| | | | |
|---|---|---|---|
| Cas. No. | 91618-36-9 | | |
| SMILES | O=C(C1=CN2C(C)CCC3=C2C(C1=O)=CC(F)=C3C)O | | |
| Formula | $C_{15}H_{14}FNO_3$ | M.Wt | 275.27 |
| Solubility | Soluble in DMSO | Storage | Store at -20°C |
| General tips | For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months. | | |
| Shipping Condition | Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request. | | |
| Structure | Ibafloxacine (R835) | | |

## Protocol

**Animal experiment:**

Goats[1]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.

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

## Background

Ibafloxacine (R835) is a fluoroquinolone antibiotic agent that is developed exclusively for veterinary use.

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[1].

[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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