



LKT Laboratories, Inc.

Flumequine Sodium

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Product Information

Product ID F4881

CAS No. 42835-68-7

Chemical Name

Synonym

Formula $C_{14}H_{11}FNNaO_3$

Formula Wt. 283.23

Melting Point

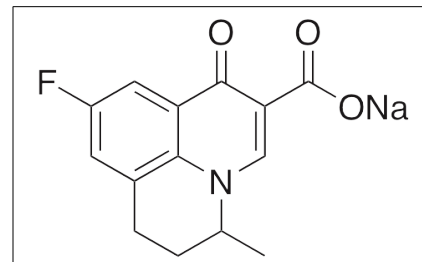
Purity $\geq 98\%$

Solubility

Store Temp Ambient

Ship Temp Ambient

Description Flumequine is a fluoroquinolone antibiotic commonly used in veterinary medicine. Flumequine exhibits antibacterial efficacy through the inhibition of bacterial DNA gyrase. This compound also displays other activity, inhibiting GABA-A receptors in the ileum, and displays cancer-related activity in the liver, although reports conflict as to whether flumequine is chemopreventive or carcinogenic. Additionally, this compound was previously explored as a treatment for urinary tract infection in humans, although is not currently used in that manner.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
F4881	1 g	\$53.70
F4881	5 g	\$171.40
F4881	25 g	\$534.70

References Kuroiwa Y, Umemura T, Nishikawa A, et al. Lack of in vivo mutagenicity and oxidative DNA damage by flumequine in the livers of gpt delta mice. Arch Toxicol. 2007 Jan;81(1):63-9. PMID: 16802149.

Vik-Mo FT, Bergh O, Samuelsen OB. Efficacy of orally administered flumequine in the treatment of vibriosis caused by *Listonella anguillarum* in atlantic cod *Gadus morhua*. Dis Aquat Organ. 2005 Nov 9;67(1-2):87-92. PMID: 16385813.

Koutsoviti-Papadopoulou M, Kounenis G, Elezoglou V. Inhibitory effect of flumequine, enoxacin and norfloxacin on the GABA-induced contractile effect on the guinea pig ileum. Gen Pharmacol. 1995 Oct;26(6):1391-5. PMID: 7590136.

Schena FP, Gesualdo L, Caracciolo G. A multicentre study of flumequine in the treatment of urinary tract infections. J Antimicrob Chemother. 1988 Jan;21(1):101-6. PMID: 3356617.

Smith JT. The mode of action of 4-quinolones and possible mechanisms of resistance. J Antimicrob Chemother. 1986 Nov;18 Suppl D:21-9. PMID: 3542946.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.