



Product Information

Product ID V014457

CAS No. 133868-46-9

Chemical Name

Synonym Valnemulin HCl

Formula $C_{31}H_{52}N_2O_5S \cdot HCl$

Formula Wt. 601.28

Melting Point

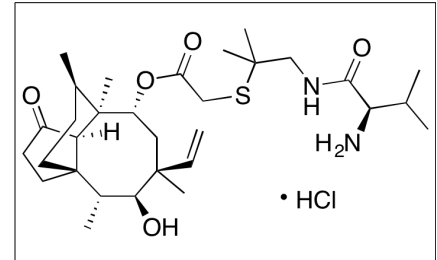
Purity $\geq 98\%$

Solubility Soluble in ethanol,
methanol, DMF, DMSO.
Slightly soluble in water.

Store Temp $-20^{\circ}C$

Ship Temp Ambient

Description Valnemulin hydrochloride is a pleuromutilin antibiotic derivative with anti-inflammatory activities. In cell line RAW264.7, valnemulin inhibited nitric oxide, prostaglandin E2, and tumor necrosis factor-alpha. In a mouse model of lung injury, valnemulin was found to decrease tissue injury and inflammation. Furthermore, a study on Staphylococcus aureus found valnemulin to give prolonged postantibiotic effects.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size
V014457	25 mg
V014457	100 mg
V014457	250 mg
V014457	1 g

References Poulsen SM, Karlsson M, Johansson LB, et al. The pleuromutilin drugs tiamulin and valnemulin bind to the RNA at the peptidyl transferase centre on the ribosome. *Mol Microbiol*. 2001 Sep;41(5):1091-1099. PMID: 11555289.

Zhang X, Li H, Xiong H, et al. Valnemulin downregulates nitric oxide, prostaglandin E2, and cytokine production via inhibition of NF-kappaB and MAPK activity. *Int Immunopharmacol*. 2009 Jul;9(7-8):810-816. PMID: 19293003.

Chen Z, Zhang X, Chu X, et al. Preventive effects of valnemulin on lipopolysaccharide-induced acute lung injury in mice. *Inflammation*. 2010 Oct;33(5):306-314. PMID: 20221680.

Zhao DH, Yu Y, Zhou YF, et al. Postantibiotic effect and postantibiotic sub-minimum inhibitory concentration effect of valnemulin against Staphylococcus aureus isolates from swine and chickens. *Lett Appl Microbiol*. 2014 Feb;58(2):150-155. PMID: 24117872.

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