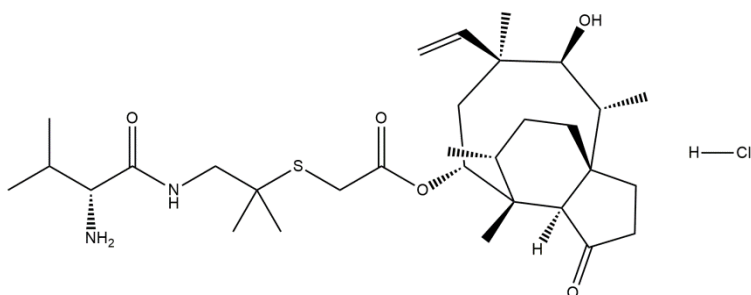


Valnemulin hydrochloride

ALTERNATE NAMES: 2-[[2-[[[(2R)-2-amino-3-methyl-1-oxobutyl]-amino]-1,1-dimethyl-ethyl]-thio]-acetic acid, (3aS,4R,5S,-6S,8R,9R,-9aR,10R)-6-ethenyl-decahydro-5-hydroxy-4,6,9,10-tetramethyl-1-oxo-3a,9-propano-3aH-cyclopentacycloocten-8-yl ester, hydrochloride; W1GDP58BNQ; [(1S,2R,3S,4S,6R,7R,8R,14R)-4-ethenyl-3-hydroxy-2,4,7,14-tetramethyl-9-oxo-6-tricyclo[5.4.3.0^{1,6}]tetradecanyl] 2-[1-[[[(2R)-2-amino-3-methylbutanoyl]amino]-2-methylpropan-2-yl]sulfanylacetate, hydrochloride; Econor Hydrochloride

CATALOG #: B2949-10 10 mg
B2949-50 50 mg

STRUCTURE:



MOLECULAR FORMULA: C₃₁H₅₃ClN₂O₅S

MOLECULAR WEIGHT: 601.28

CAS NUMBER: 133868-46-9

APPEARANCE: Solid

PURITY: ≥95%

SOLUBILITY: Soluble in DMSO

DESCRIPTION: Valnemulin is a pleuromutilin antibiotic that inhibits protein synthesis by binding to the 50S ribosomal subunit of bacteria. It is used to treat swine diseases including *Brachyspira hyodysenteriae* and *Mycoplasma hyopneumoniae* which cause dysentery and enzootic pneumonia respectively. Valnemulin (100 mg/kg) has a protective effect on LPS-induced acute lung injury in mice.

STORAGE TEMPERATURE: -20°C. Hygroscopic. Protect from air. Store under desiccating conditions.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

REFERENCES:

- Chen, Z., Zhang, X., Chu, X., et al. Preventive effects of valnemulin on lipopolysaccharide-induced acute lung injury in mice. *Inflammation*. 33(5), 306-14 (2010).
- Poulsen, S.M., Karlsson, M., Johansson, L.B., et al. The pleuromutilin drugs tiamulin and valnemulin bind to the RNA at the peptidyl transferase centre on the ribosome. *Mol. Microbiol.* 41(5), 1091-1099 (2001).

RELATED PRODUCTS:

Ampicillin trihydrate (Cat. No. 2483)
 Oxfendazole (Cat. No. B2391)
 Tildipirosin (Cat. No. 9673)
 Pimobendan (Cat. No. 9676)
 Streptomycin Sulfate (Cat. No. 2517)

DISCLAIMER: **FOR RESEARCH USE ONLY! Not to be used on humans.**