



# Valnemulin hydrochloride PRODUCT DATA SHEET

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| <b>Product Name:</b>        | Valnemulin hydrochloride  |
| <b>Product Number:</b>      | V006  |
| <b>CAS Number:</b>          | 133868-46-9   |
| <b>Molecular Formula:</b>   | $C_{31}H_{52}N_2O_5S \cdot HCl$   |
| <b>Molecular Weight:</b>    | 601.27  |
| <b>Form:</b>                | Powder  |
| <b>Appearance:</b>          | White or light yellow crystalline powder  |
| <b>Source:</b>              | Semi-synthetic  |
| <b>pH:</b>                  | 3.0-6.0   |
| <b>Storage Conditions:</b>  | 2-8°C   |
| <b>Description:</b>         | Valnemulin is a synthetic pleuromutilin antibiotic used in veterinary medicine. Valnemulin inhibits bacterial protein synthesis by binding to the peptidyl transferase enzyme in the 50S ribosomal subunit. Valnemulin is freely soluble in aqueous solution. |
| <b>Mechanism of Action:</b> | Valnemulin inhibits protein synthesis in bacteria by binding to the peptidyl transferase component of the 50S subunit of ribosomes.   |
| <b>Spectrum:</b>            | Valnemulin targets primarily bacteria of the Mycoplasma genus responsible for bovine respiratory infections.  |

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