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| Product Name: | Retapamulin |
| Product Number: | R027 |
| CAS Number: | 224452-66-8 |
| Molecular Formula: | $C_{30}H_{47}NO_4S$ |
| Molecular Weight: | 517.8 |
| Appearance: | White solid |
| Storage Conditions: | -20°C |
| Description: | <p>Retapamulin is a semi-synthetic pleuromutilin prepared by reacting pleuromutilin tosylate with tropine-3-thiol to give a more hydrophobic analogue with a tertiary amine. This enables formulation as a stable hydrochloride salt. Retapamulin is a broad spectrum antibiotic with no cross resistance to existing antibiotic classes, and is the first pleuromutilin approved for human use.</p> <p>Retapamulin is soluble in ethanol, methanol, DMF and DMSO and has moderate water solubility.</p> |
| Mechanism of Action: | Retapamulin inhibits protein synthesis by binding to domain V of 23S rRNA. |
| References: | <p>Activity of retapamulin (SB-275833), a novel pleuromutilin, against selected resistant gram-positive cocci. Jones R. et al. Antimicrob. Agents Chemother. 2006, 50, 2583.</p> <p>Retapamulin. Daum R.S. et al. Nature Reviews Drug Discovery 2007, 6, 865.</p> |