

**Product Name:** Tilmicosin Phosphate

**Product Number:** T093

**CAS Number:** 137330-13-3

**Molecular Formula:**  $C_{46}H_{83}N_2O_{17}P$

**Molecular Weight:** 967.1

**Appearance:** White solid

**Storage Conditions:** -20°C

**Description:** Tilmicosin phosphate (20-Deoxy-20-(3,5-dimethylpiperidin-1-yl)-desmycosin phosphate) is a salt of the semi-synthetic antibiotic derivative of desmycosin (tylosin B), a minor co-metabolite of tylosin, prepared by mixing the active tilmicosin with phosphoric acid to provide improved solubility and enhanced pharmacokinetics. Tilmicosin is a broad spectrum antibiotic, providing good protection against Pasteurella in livestock.

Tilmicosin phosphate is soluble in ethanol, methanol, DMF and DMSO.

**References:** Synthesis and antimicrobial evaluation of 20-deoxo-20-(3,5-dimethylpiperidin-1-yl)desmycosin (Tilmicosin, EL-870) and related cyclic amino derivatives. Debono M. et al. J. Antibiot. 1989, 42, 1253.