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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Spiramycin hexanedioate

Chemical Properties

CAS No. : 11034-40-5

Formula:

Molecular Weight:

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	Spiramycin hexanedioate (Rovamycin) is a macrolide antibiotic produced by <i>Streptomyces ambofaciens</i> , exhibiting antibacterial, anti-Toxoplasma, and antiparasitic properties. The structure of Spiramycin hexanedioate comprises 16 lactone rings and is adorned with three sugars: mycaminose, forosamine, and mycarose.
In vitro	Spiramycin treatment (24 hours; 1-1000 μ M; <i>T. gondii</i> infected HeLa cells and HeLa cells) demonstrates reduced cytotoxicity and exhibits anti-Toxoplasma gondii activity. It has IC50 values of 189 μ M for HeLa cells and 262 μ M for <i>T. gondii</i> -infected HeLa cells.
In vivo	Administered daily for four days via intraperitoneal injection at a dose of 100 mg/kg, spiramycin treatment in female KM mice significantly diminishes tachyzoite counts and hepatotoxicity while enhancing antioxidative effects. Furthermore, this treatment notably reduces the extent of granulomatous inflammation in the liver.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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