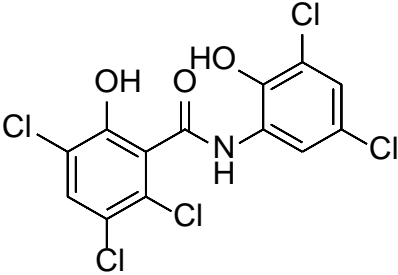


# Product data sheet



MedKoo Cat#: 461721 Name: Oxyclozanide CAS: 2277-92-1 Chemical Formula: C <sub>13</sub> H <sub>6</sub> Cl <sub>5</sub> NO <sub>3</sub> Exact Mass: 398.879 Molecular Weight: 401.445	
Product supplied as:	Powder
Purity (by HPLC):	≥ 98%
Shipping conditions	Ambient temperature
Storage conditions:	Powder: -20°C 3 years; 4°C 2 years. In solvent: -80°C 3 months; -20°C 2 weeks.

## 1. Product description:

Oxyclozanide is a salicylanilide anthelmintic. It is used in the treatment and control of fascioliasis in ruminants mainly domestic animals such as cattle, sheep, and goats.

## 2. CoA, QC data, SDS, and handling instruction

SDS and handling instruction, CoA with copies of QC data (NMR, HPLC and MS analytical spectra) can be downloaded from the product web page under “QC And Documents” section. Note: copies of analytical spectra may not be available if the product is being supplied by MedKoo partners. Whether the product was made by MedKoo or provided by its partners, the quality is 100% guaranteed.

## 3. Solubility data

Solvent	Max Conc. mg/mL	Max Conc. mM
DMSO	90.0	224.19

## 4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	2.49 mL	12.45 mL	24.91 mL
5 mM	0.50 mL	2.49 mL	4.98 mL
10 mM	0.25 mL	1.25 mL	2.49 mL
50 mM	0.05 mL	0.25 mL	0.50 mL

## 5. Molarity Calculator, Reconstitution Calculator, Dilution Calculator

Please refer the product web page under section of “Calculator”

## 6. Recommended literature which reported protocols for in vitro and in vivo study

In vitro study

1. Levinson MR, Blondeau JM, Rosenkrantz WS, Plowgian CB. The in vitro antibacterial activity of the anthelmintic drug oxyclozanide against common small animal bacterial pathogens. *Vet Dermatol.* 2019 Aug;30(4):314-e87. doi: 10.1111/vde.12755. Epub 2019 May 7. PMID: 31062461.

2. Maiden MM, Zachos MP, Waters CM. The ionophore oxyclozanide enhances tobramycin killing of *Pseudomonas aeruginosa* biofilms by permeabilizing cells and depolarizing the membrane potential. *J Antimicrob Chemother.* 2019 Apr 1;74(4):894-906. doi: 10.1093/jac/dky545. PMID: 30624737; PMCID: PMC6735725.

In vivo study

TBD

## 7. Bioactivity

Biological target:

Oxyclozanide is an orally active salicylanilide anthelmintic agent.

In vitro activity

The MIC and MPC of oxyclozanide were determined from eighteen meticillin sensitive *S. pseudintermedius* (MSSP) isolates and eleven meticillin-resistant *S. pseudintermedius* (MRSP), as well as single isolates of *Staphylococcus aureus*, *Escherichia coli*,

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*Pseudomonas aeruginosa* and *Enterococcus faecalis*. Oxyclozanide demonstrated in-vitro antibacterial activity against meticillin-resistant *S. pseudintermedius*.

Reference: Vet Dermatol. 2019 Aug;30(4):314-e87. <https://pubmed.ncbi.nlm.nih.gov/31062461/>

In vivo activity

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TBD

*Note: The information listed here was extracted from literature. MedKoo has not independently retested and confirmed the accuracy of these methods. Customer should use it just for a reference only.*