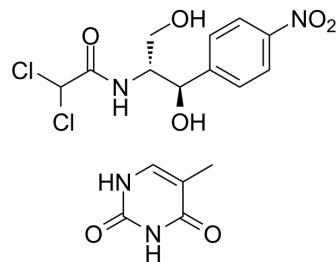


## Levomecol

<b>Cat. No.:</b>	HY-111903
<b>CAS No.:</b>	118573-58-3
<b>Molecular Formula:</b>	C <sub>16</sub> H <sub>18</sub> Cl <sub>2</sub> N <sub>4</sub> O <sub>7</sub>
<b>Molecular Weight:</b>	449.24
<b>Target:</b>	Bacterial
<b>Pathway:</b>	Anti-infection
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Levomecol (Chloramphenicol), made up of Chloramphenicol, Methyluracil, is a broad-spectrum antibiotic that is derived from the bacterium <i>Streptomyces venezuelae</i> . Levomecol (Chloramphenicol) stops bacterial growth by binding to the bacterial ribosome (blocking peptidyl transferase) and inhibiting protein synthesis <sup>[1][2][3]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	Peptidyl transferase <sup>[1]</sup>
<b>In Vivo</b>	<p>Levomecol (solution applied on the wound for 14 consecutive days) can inhibit the infiltration of mast cells and stimulate the infiltration of lymphocytes and macrophages (monocytes) into the wound, and has antibacterial activity on rats infected with pathogens<sup>[2]</sup>.</p> <p>Levomecol (40% ointment solution) can effectively correct the disorder of tissue apoptosis in the occurrence of ischemic complications in rats with diabetes<sup>[3]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

### REFERENCES

- [1]. Babenkov HD, et al. [The influence of photochemically activated 40% solution of levomecol ointment toward apoptosis in muscles of the rats posterior extremities in inflammatory-purulent complications of diabetes mellitus]. *Klin Khir.* 2006 Jul;(7):58-60. Ukrainian
- [2]. Babenkov HD, et al. [The influence of photochemically activated 40% solution of levomecol ointment toward apoptosis in muscles of the rats posterior extremities in inflammatory-purulent complications of diabetes mellitus]. *Klin Khir.* 2006 Jul;(7):58-60. Ukrainian.
- [3]. Chloramphenicol

**Caution: Product has not been fully validated for medical applications. For research use only.**

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