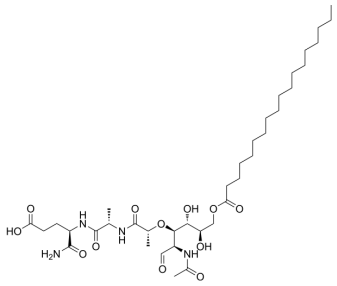
# L18-MDP

| | |
|---|---|
| **Cat. No.:** | HY-148690 |
| **CAS No.:** | 60398-08-5 |
| **Molecular Formula:** | $C_{37}H_{66}N_4O_{12}$ |
| **Molecular Weight:** | 758.94 |
| **Sequence:** | Ac-(6-O-stearoyl)-muramyl-Ala-{d-Glu}-NH2 |
| **Target:** | Bacterial; Fungal |
| **Pathway:** | Anti-infection |
| **Storage:** | Please store the product under the recommended conditions in the Certificate of Analysis. |



## BIOLOGICAL ACTIVITY

**Description**

L18-MDP is a derivative of muramyl dipeptide, an antibacterial agent. L18-MDP has antibacterial activity and has potential applications in bacterial and fungal infections[1].

**In Vivo**

L18-MDP (100 μg; s.c.; single dose) has anti-infection effect in mice infected with Escherichia coli or Klebsiella pneumoniae[1].

L18-MDP (100 μg or 1000 μg; s.c., i.p., i.v. or p.o.; single dose) increases the survival rate of mice infected with Escherichia coli and improves the pathological tissue of mice infected with Listeria monocytogenes[1].

L18-MDP (100 μg or 200 μg; s.c. or i.p.; once daily for 3 days) increases the survival rate of mice infected with Candida albicans[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

| | |
|---|---|
| Animal Model: | Mice infected with Escherichia coli, Klebsiella pneumoniae or Listeria monocytogenes[1]. |
| Dosage: | 100 μg or 1000 μg. |
| Administration: | Subcutaneous injection, intraperitoneal injection, intravenous injection or oral gavage; single dose. |
| Result: | Strengthened the phagocytosis of the microorganisms, weakened the virus activity, increased the survival rate and improved the pathological tissue. |

| | |
|---|---|
| Animal Model: | Mice infected with Candida albicans[1]. |
| Dosage: | 100 μg or 200 μg. |
| Administration: | Subcutaneous injection or intraperitoneal injection; once daily for 3 days. |
| Result: | Strengthened the phagocytosis of the microorganisms, weakened the virus activity, increased the survival rate and improved the pathological tissue. |

## REFERENCES

[1]. Osada Y, et al. Effect of L18-MDP(Ala), a synthetic derivative of muramyl dipeptide, on nonspecific resistance of mice to microbial infections. Infect Immun. 1982 Jul;37(1):292-300.



Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA