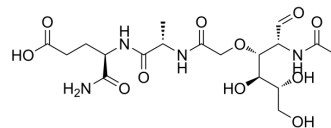


## Almurtide

Cat. No.:	HY-122529
CAS No.:	61136-12-7
Molecular Formula:	C <sub>18</sub> H <sub>30</sub> N <sub>4</sub> O <sub>11</sub>
Molecular Weight:	478.45
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Almurtide (nor-MDP), a muramyl dipeptide derivative with anti-inflammatory and anti-tumor activity. Almurtide also shows protective effects against intraperitoneal <i>Pseudomonas aeruginosa</i> infection or intravenously <i>Candida albicans</i> infection in mice. Almurtide also inhibits the carcinogenic Friend leukemia virus <sup>[1][2][3]</sup> .
<b>In Vivo</b>	Almurtide (80 mg/kg; once daily for 4 consecutive days; via intraperitoneal, intravenous, or subcutaneous) stimulates macrophages nonspecifically and has anti-infective activity against <i>Listeria monocytogenes</i> . At the same time, it lacks oral activity and is synergistic with Gentamicin (HY-A0276A) <sup>[2]</sup> . Almurtide (100 µg/mouse; s.c.; once for 2-3 months) prevents erythroleukemia in SJL/J mice caused by low-dose Friend leukemia virus and delays the occurrence of spontaneous breast tumors in RIII/Imr mice <sup>[3]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

- [1]. Díaz-Eufracio BI, et al. Exploring the chemical space of peptides for drug discovery: a focus on linear and cyclic penta-peptides. *Mol Divers*. 2018 May;22(2):259-267.
- [2]. Fraser-Smith E B, et al. Protective effect of muramyl dipeptide analogs against infections of *Pseudomonas aeruginosa* or *Candida albicans* in mice. *Infection and immunity*, 1981, 34(3): 676-683.
- [3]. Acevedo H F, et al. Prevention of oncogenic viral infections in mice with CGP 11637, a synthetic muramyl dipeptide analog[J]. *Antimicrobial agents and chemotherapy*, 1985, 28(5): 589-596.

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

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