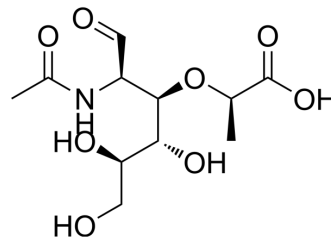


N-Acetylmuramic acid

Cat. No.:	HY-W009274
CAS No.:	10597-89-4
Molecular Formula:	C ₁₁ H ₁₉ NO ₈
Molecular Weight:	293.27
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	N-acetylmuramic acid is a component of the bacterial cell wall peptidoglycan, essential for maintaining cell shape and integrity ^[1] . N-acetylmuramic acid inhibits spore germination by inhibiting a coat-associated hexosaminidase and a core enzyme ^[2] . N-acetylmuramic acid is required by <i>Bacteroides forsythus</i> for proliferation and the maintenance of its cell shape ^[3] .
IC ₅₀ & Target	Human Endogenous Metabolite

REFERENCES

- [1]. Herbold DR, Glaser L. Interaction of N-acetylmuramic acid L-alanine amidase with cell wall polymers. *J Biol Chem.* 1975 Sep 25;250(18):7231-8
- [2]. Brown W, et al. N-acetylmuramic acid inhibits spore germination and germination enzymes. *J Basic Microbiol.* 1990;30(2):67-72
- [3]. Wyss C. Dependence of proliferation of *Bacteroides forsythus* on exogenous N-acetylmuramic acid. *Infect Immun.* 1989 Jun;57(6):1757-9

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

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