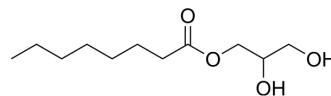


Glyceryl 1-monooctanoate

Cat. No.:	HY-W012444
CAS No.:	502-54-5
Molecular Formula:	C ₁₁ H ₂₂ O ₄
Molecular Weight:	218.29
Target:	Antibiotic; Fungal
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Glyceryl 1-monooctanoate is a glycerol monolaurate derivative. Glyceryl 1-monooctanoate is a broad-spectrum antimicrobial, suppresses the growth of pathogenic yeast (<i>Candida albicans</i> and <i>Candida parapsilosis</i>), as well as Gram-positive (<i>Staphylococcus aureus</i>) and Gram-negative (<i>Escherichia coli</i> , <i>Klebsiella pneumoniae</i>) bacteria ^[1] .
In Vitro	<p>Glyceryl 1-monooctanoate (0-32.5 mg/L; 30 d) has antifungal activity against saprophytic fungi. Glyceryl 1-monooctanoate inhibits the growth of <i>Aspergillus niger</i>, <i>Penicillium roqueforti</i>, <i>Penicillium jensenii</i>, <i>Alternaria</i> sp., <i>Phoma</i> sp^[1].</p> <p>Glyceryl 1-monooctanoate (0-32.5 mg/L; 30 d) has antifungal activity against pathogenic fungi. Glyceryl 1-monooctanoate inhibits the growth of <i>Trichophyton mentagrophytes</i> and <i>Trichophyton rubrum</i>^[1].</p> <p>Glyceryl 1-monooctanoate (30 d) has antifungal activity against pathogenic yeast with minimum inhibitory concentration (MIC) of 200 mg/L for <i>Candida albicans</i>^[1].</p> <p>Glyceryl 1-monooctanoate (30 d) has antifungal activity against Gram-positive (<i>Staphylococcus aureus</i>) and Gram-negative (<i>Escherichia coli</i>, <i>Klebsiella pneumoniae</i>) bacteria^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

[1]. Vltavská P, et, al. Antifungal and antibacterial effects of 1-monocaprylin on textile materials. *Eur. J. Lipid Sci. Technol.* 2012.

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

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