

Cacaoidin

Cat. No.:	HY-P5740
Molecular Formula:	C ₁₀₇ H ₁₆₂ N ₂₄ O ₃₂ S ₂
Molecular Weight:	2360.7
Sequence:	{d-Ala(N,N-2Me)}-{Dha}-Ala-Pro-Ala-{d-Abu}-Ile-Tyr-Ala-{d-Ala}-Val-{d-Ala}-Ala-{d-Ala}-Ile-{d-Ala}-{d-Abu}-Ala-Ser-Trp-Gly-dehydro-Cys(Thioether: d-Ala1-Ala5, d-Abu18-Cys23, Cys23 is dehydrated to form a double bond between Calpha and carbonyl carbons)
Sequence Shortening:	{d-Ala(N,N-2Me)}-{Dha}-APA-{d-Abu}-IYA-{d-Ala}-V-{d-Ala}-A-{d-Ala}-I-{d-Ala}-{d-Abu}-A-SWG-{dehydro-Cys} (Thioether: d-Ala1-Ala5, d-Abu18-Cys23, Cys23 is dehydrated to form a double bond between Calpha and carbonyl carbons)
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description

Cacaoidin is a glycosylated lantibiotic isolated from a *Streptomyces cacaoi* strain. Cacaoidin has potent antibacterial activity against Gram-positive pathogens including *Clostridium difficile*^[1].

REFERENCES

[1]. Ortiz-López FJ, Carretero-Molina D, Sánchez-Hidalgo M, Martín J, González I, Román-Hurtado F, de la Cruz M, García-Fernández S, Reyes F, Deisinger JP, Müller A, Schneider T, Genilloud O. Cacaoidin, First Member of the New Lanthidin RiPP Family. *Angew Chem Int Ed Engl.* 2020 Jul 27;59(31):12654-12658.

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

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