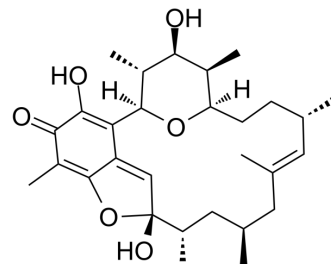


Kendomycin

Cat. No.:	HY-121300
CAS No.:	183202-73-5
Molecular Formula:	C ₂₉ H ₄₂ O ₆
Molecular Weight:	486.64
Target:	Antibiotic; Bacterial; Endothelin Receptor; CGRP Receptor
Pathway:	Anti-infection; GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Kendomycin ((-)-TAN 2162) is a polyketide antibiotic with remarkable antibacterial and cancer cells cytotoxic activities. Kendomycin tends to be bacteriostatic rather than bactericidal and inhibits the growth of the methicillin-resistant *Staphylococcus aureus* (MRSA) strain COL at a low concentration (MIC of 5 µg/mL). Kendomycin is a potent antagonist of the endothelin receptor and a calcitonin receptor agonist which plays its role as an anti-osteoporotic agent^{[1][2]}.

REFERENCES

- [1]. Yasser A Elnakady, et al. Investigations to the Antibacterial Mechanism of Action of Kendomycin. PLoS One. 2016 Jan 21;11(1):e0146165.
- [2]. Yu Yuan, et al. Total synthesis of kendomycin: a macro-C-glycosidation approach. J Am Chem Soc. 2004 Nov 17;126(45):14720-1.
- [3]. Tetsuya Sengoku, et al. Total synthesis of the antibiotic kendomycin: a macrocyclization using the Tsuji-Trost etherification. Angew Chem Int Ed Engl. 2014 Apr 14;53(16):4213-6.

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

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