Pestanoid A

Cat. No.: HY-N12561

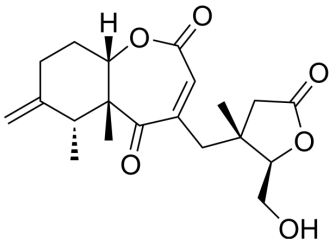
Molecular Formula: $C_{20}H_{26}O_6$

Molecular Weight: 362.42

Target: ERK; p38 MAPK; JNK

Pathway: MAPK/ERK Pathway; Stem Cell/Wnt

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Pestanoid A is a rearranged pimarane diterpenoid osteoclastogenesis inhibitor with an IC_{50} of 4.2 μM. Pestanoid A can be isolated from the marine mesophotic zone chalinidae sponge-associated fungus, Pestalotiopsis sp. NBUF145. Pestanoid A inhibits the receptor activator of NF-kB ligand-induced MAPK and NF-κB signaling by suppressing the phosphorylation of ERK1/2-JNK1/2-p38 MAPKs and NF-κB nuclear translocation. Pestanoid A can be used for the study of osteoporosis[1].

REFERENCES

[1]. Wang T, et al. Pestanoid A, a Rearranged Pimarane Diterpenoid Osteoclastogenesis Inhibitor from a Marine Mesophotic Zone Chalinidae Sponge-Associated Fungus, Pestalotiopsis sp. NBUF145[J]. Journal of Natural Products, 2024.

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

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