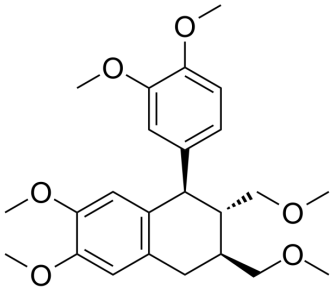
Phyltetralin

Cat. No.:	HY-121397
CAS No.:	123048-17-9
Molecular Formula:	$C_{24}H_{32}O_6$
Molecular Weight:	416.51
Target:	ROS
Pathway:	Protein Tyrosine Kinase/RTK
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Phyltetralin (Compound 10) is a natural product than can be isolated from the hexane-ethyl acetate extract of Phyllanthus amarus leaves. Phyltetralin possesses immunosuppressive effects on different lineages of innate immune system[1][2].
In Vitro	Phyltetralin shows inhibition on Polymorphonuclear neutrophil (PMN) chemotaxis with an IC_{50} of 4.01 μM[2]. Phyltetralin shows strong inhibition against reactive oxygen species (ROS) production from PMA-stimulated neutrophil with an IC_{50} of 0.73 μM[2]. Phyltetralin shows weak inhibition on CD18 expression and moderate inhibition on engulfment activity[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Conrado GG, et al. Prospecting and Identifying Phyllanthus amarus Lignans with Antileishmanial and Antitrypanosomal Activity. Planta Med. 2020 Jul;86(11):782-789.

[2]. Yuandani, et al. 1, 7, 8-trihydroxy 2-naphtaldehyde, ethyl 8-hydroxy-8-methyl-tridecanoate and 1-triacontanol from Phyllanthus amarus Schumach. & Thonn. inhibit phagocytic activity of human leucocytes[J]. Journal of Pharmacy and Pharmacology, 2019, 71(9): 1451-1457.

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