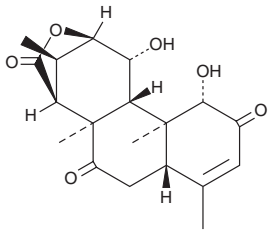
PRODUCT INFORMATION

Eurycomalactone

Item No. 39016

CAS Registry No.:	23062-24-0
Formal Name:	(1R,2R,5S,5aR,7aS,11S,11aS,11bR,12R)-1,5,5a,7,7a,11,11a,11b-octahydro-1,11-dihydroxy-5a,8,11a,12-tetramethyl-2,5-methanonaphth[1,2-d]oxepin-4,6,10(2H)-trione
MF:	$C_{19}H_{24}O_6$
FW:	348.4
Purity:	≥98%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years
Item Origin:	Plant/*Eurycoma longifolia*



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Eurycomalactone is supplied as a solid. A stock solution may be made by dissolving the eurycomalactone in the solvent of choice, which should be purged with an inert gas. Eurycomalactone is soluble in acetonitrile and DMSO.

Description

Eurycomalactone is a quassinoid that has been found in *E. longifolia* and has diverse biological activities.[1-3] It inhibits TNF-α-induced NF-κB activation in a reporter assay using HEK293 cells (IC_{50} = 0.5 µM).[1] Eurycomalactone also inhibits viral infection of HCT-8 cells with human coronavirus OC43 (HCoV-OC43) and Vero cells with severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) in cellular immunoassays (IC_{50}s = 0.37 and 0.51 µM, respectively).[2] It is cytotoxic to A549 human lung and HeLa cervical cancer cells when used at concentrations of 10 and 100 µM.[3]

References

1. Tran, T.V., Malainer, C., Schwaiger, S., *et al.* NF-κB inhibitors from *Eurycoma longifolia*. *J. Nat. Prod.* **77(3)**, 483-488 (2014).
2. Choonong, R., Ruangdachsuwan, S., Churod, T., *et al.* Evaluating the in vitro efficacy of quassinoids from *Eurycoma longifolia* and *Eurycoma harmandiana* against common cold human coronavirus OC43 and SARS-CoV-2 using in-cell enzyme-linked immunosorbent assay. *J. Nat. Prod.* **85(12)**, 2779-2788 (2022).
3. Park, S., Nhiem, N.X., Kiem, P.V., *et al.* Five new quassinoids and cytotoxic constituents from the roots of *Eurycoma longifolia*. *Bioorg. Med. Chem. Lett.* **24(16)**, 3835-3840 (2014).

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