PRODUCT INFORMATION



Eurycomanone

Item No. 30896

CAS Registry No.:	84633-29-4	
Formal Name:	(1β,11β,12α,15β)-11,20-epoxy-	ОН
	1,11,12,14,15-pentahydroxy-picrasa- 3,13(21)-diene-2,16-dione	HO
Synonyms:	NSC 339187, Pasakbumin A	
MF:	$C_{20}H_{24}O_9$	O, OH
FW:	408.4	Ύ́́́́́́́́́́́́́́́́́́́́́́́́́́́́́́́́́́́́
Purity:	≥95%	
Supplied as:	A solid	
Storage:	-20°C	
Stability:	≥4 years	·
Item Origin:	Plant/Tongkat Ali	
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Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

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

Description

Eurycomanone is a quassinoid originally isolated from E. longifolia that has diverse biological activities.¹ It is active against the W2 and D6 clones of *P. falciparum* ($IC_{50}s = 0.015$ and 0.026 µg/ml, respectively).² Eurycomanone induces lipolysis in 3T3-L1 adipocytes with an EC₅₀ value of 14.6 µM, an effect that can be blocked by the protein kinase A (PKA) inhibitor H-89 (Item No. 10010556).³ It induces cell cycle arrest at the G_2/M phase and apoptosis in HepG2 cells when used at a concentration of 5 μ g/ml.⁴ It reduces estrogen release and increases testosterone release in isolated rat Leydig cell-rich testicular interstitial cell preparations when used at concentrations of 1 and 10 μ M.⁵ Eurycomanone (1 mg/kg, i.p.) decreases gastric acid secretion and lesion size in rat models of indomethacin-, water immersion stress-, or pyloric ligation-induced ulcer formation.⁶

References

- 1. Darise, M., Kohda, H., Mizutani, K., et al. Eurycomanone and eurycomanol, quassinoids from the roots of Eurycoma longifolia. Phytochemistry 21(8), 2091-2093 (1982).
- 2. Kuo, P.-C., Damu, A.G., Lee, K.-H., et al. Cytotoxic and antimalarial constituents from the roots of Eurycoma longifolia. Bioorg. Med. Chem. 12(3), 537-544 (2004).
- 3. Lahrita, L., Hirosawa, R., Kato, E., et al. Isolation and lipolytic activity of eurycomanone and its epoxy derivative from Eurycoma longifolia. Bioorg. Med. Chem. 25(17), 4829-4834 (2017).
- 4 Zakaria, Y., Rahmat, A., Pihie, A.H.L., et al. Eurycomanone induce apoptosis in HepG2 cells via up-regulation of p53. Cancer Cell Int. 9, (2009).
- 5. Low, B.-S., Choi, S.-B., Wahab, H.A., et al. Eurycomanone, the major guassinoid in Eurycoma longifolia root extract increases spermatogenesis by inhibiting the activity of phosphodiesterase and aromatase in steroidogenesis. J. Ethnopharmacol. 149(1), 201-207 (2013).
- 6. Tada, H., Yasuda, F., Otani, K., et al. New antiulcer quassinoids from Eurycoma longifolia. Eur. J. Med. Chem. 26(3), 345-349 (1991).

WARNING THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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