

Product Data Sheet

Product Name: Eurycomanone (Pasakbumin A)

Cat. No.: GC32430

Chemical Properties

Cas. No. 84633-29-4

SMILES O[C@@]1([C@H]2O)[C@@]34[C@@]([C@](OC4)(O)[C@H](O)C1=C)([H])[C@]([C@@](C(C)=CC5=O)([H])C[C@@]3([H])OC2=O)([C@@H]5O)C

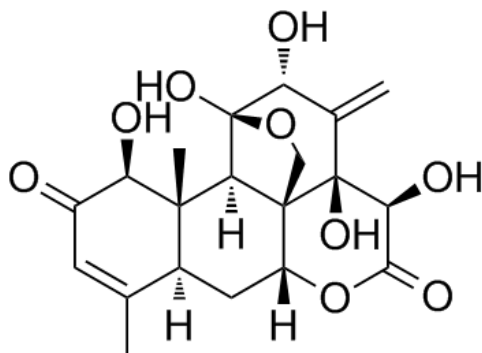
Formula $C_{20}H_{24}O_9$ M.Wt 408.4

Solubility DMSO: 16.67 mg/mL (40.82 mM) Storage Store at -20°C, protect from light

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

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

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Eurycomanone could increase spermatogenesis by inhibiting the activity of phosphodiesterase and aromatase in steroidogenesis.

Eurycomanone (EN) significantly increased testosterone production dose-dependently at 0.1, 1.0 and 10.0 μ M, but the two lower doses when combined with 3-isobutyl-1-methylxanthine (IBMX), the phosphodiesterase inhibitor were not significantly higher than EN or IBMX alone, except at a higher concentration. The molecular docking studies indicated EN and IBMX were binding at different sites of the enzyme. EN has no reversal of inhibition by aminoglutethimide, ketoconazole or nifedipine at the respective steroidogenesis enzyme. The quassinoid was also non-responsive to the inhibition of oestrogen receptor by tamoxifen, but displayed improved for mestane inhibition of aromatase in reducing oestrogen production. The molecular docking studies further supported that EN and formestane bound to aromatase with similar orientations and free energy binding values[1].

[1]. Low BS, et al. Eurycomanone, the major quassinoid in Eurycoma longifolia root extract increases spermatogenesis by inhibiting the activity of phosphodiesterase and aromatase in steroidogenesis. J Ethnopharmacol. 2013 Aug 26;149(1):201-7.

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