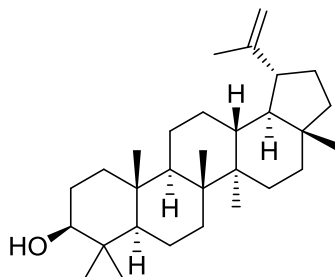


## Lupeol

Code No.: **BIA-L1759**

Pack sizes: **5 mg, 25 mg**



Synonyms : Monogynol B, (+)-Lupeol, Clerodol, Fagarasterol, Fagarsterol, Lupenol, Lupeol, NSC 90487,  $\beta$ -Viscol

## Specifications

CAS #	: <b>545-47-1</b>
Molecular Formula	: <b>C<sub>30</sub>H<sub>50</sub>O</b>
Molecular Weight	: <b>426.7</b>
Source	: <b><i>Zanthoxylum conspersipunctatum</i></b>
Appearance	: <b>White solid</b>
Purity	: <b>&gt;95% by HPLC</b>
Long Term Storage	: <b>-20°C</b>
Solubility	: <b>Soluble in ethanol, methanol, DMF or DMSO.</b>

## Application Notes

Lupeol is a pentacyclic lupane triterpene produced by various fruits, vegetables and other plants, first isolated in 1898 and published in 1907. Lupeol is reported to have very diverse biological effects, including anti-inflammatory, anti-diabetic, hepatoprotective and cardiovascular activities. Lupeol exerts antitumor activity via downregulation of TNF- $\alpha$  and reduction of downstream effector levels of VEGFR-2 signaling. Lupeol attenuates protein expression of NFKB1, COX-2, and CASP3 in bovine embryos in vitro.

## References

1. Lupeol. Jungfleisch E. & Leroux H., Compt. Rend. 1907, 144, 1435.
2. Lupeol and its role in chronic diseases. Tsai F.S. et al., Adv. Exp. Med. Biol. 2016, 929, 145.
3. Lupeol and stigmasterol suppress tumor angiogenesis and inhibit cholangiocarcinoma growth in mice via downregulation of tumor necrosis factor- $\alpha$ . Kangsamaksin T. et al., PLoS One 2017, 12.
4. Lupeol supplementation improves the developmental competence of bovine embryos in vitro. Khan I. et al., Theriogenology 2018, 107, 203.