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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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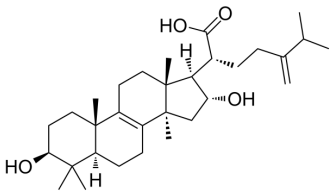
Tumulosic acid

Cat. No.:	HY-N9366
CAS No.:	508-24-7
Molecular Formula:	$C_{31}H_{50}O_4$
Molecular Weight:	486.73
Target:	Others
Pathway:	Others
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



BIOLOGICAL ACTIVITY

Description

Tumulosic acid, a triterpenoid, inhibits KLK5 protease activity (IC_{50}= 14.84 μM). Tumulosic acid suppresses the proteolytic processing of LL-37 in keratinocytes at ≤10 μM[1].

In Vitro

Tumulosic acid displays dose-dependent anti-KLK5 activity (IC_{50}=19.3 μM)[1].
Tumulosic acid decreases in LL-37 production in human keratinocytes[1].
Tumulosic acid shows IC_{50} values of 14.84 and 10.48 μM against KLK5 and trypsin proteases, while it exhibited a weak inhibitory effect on KLK7 and chymotrypsin C proteases (19.5% and 4.0%, respectively, at 100 μM)[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Western Blot Analysis[1]

Cell Line:	Normal human epidermal keratinocytes (NHEKs)
Concentration:	1 μM and 10 μM
Incubation Time:	23 h in the presence of 10 μM cycloheximide
Result:	Decreased LL-37 production in epidermal keratinocytes.

REFERENCES

[1]. Matsubara Y, et al. Inhibition of Human Kallikrein 5 Protease by Triterpenoids from Natural Sources. Molecules. 2017;22(11):1829. Published 2017 Oct 27.

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