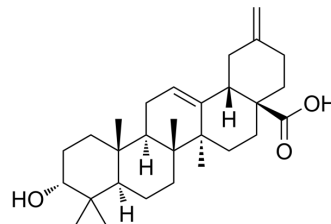


## 3 $\alpha$ -Akebonoic acid

Cat. No.:	HY-N1820
CAS No.:	104777-61-9
Molecular Formula:	C <sub>29</sub> H <sub>44</sub> O <sub>3</sub>
Molecular Weight:	440.66
Target:	Bacterial; Glucosidase
Pathway:	Anti-infection; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	3 $\alpha$ -Akebonoic acid is a $\alpha$ -glucosidase inhibitor with an IC <sub>50</sub> value of 0.035 mM. 3 $\alpha$ -Akebonoic acid shows antibacterial activity and cytotoxicity <sup>[1]</sup> .
<b>In Vitro</b>	3 $\alpha$ -Akebonoic acid (compound 5) (0-100 $\mu$ M; 24 h) shows cytotoxicity with IC <sub>50</sub> s of 10.59, 5.61, 10.39 $\mu$ M for A549, HeLa, HepG2 cells, respectively <sup>[1]</sup> . 3 $\alpha$ -Akebonoic acid (0-200 $\mu$ g/mL) shows antibacterial activity with MIC value of 25, 50 $\mu$ g/mL for Bacillus cereus (CMCC63302), Bacillus subtilis (CMCC63501), respectively <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Wang J, et al. Bioactive 30-noroleanane triterpenes from the pericarps of Akebia trifoliata. Molecules. 2014 Apr 4;19(4):4301-12.

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

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