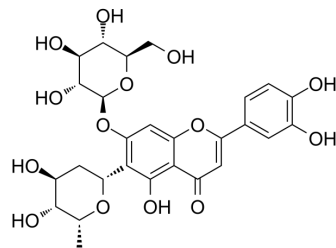


## Farobin A

Cat. No.:	HY-N12743
CAS No.:	1245447-08-8
Molecular Formula:	C <sub>27</sub> H <sub>30</sub> O <sub>14</sub>
Molecular Weight:	578.52
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

Farobin A is a natural compound with antibacterial, antioxidant and anti-inflammatory activities. Farobin A against *Streptococcus mutans* ATCC 25175 and *Streptococcus sobrinus* ATCC 33478. Farobin A shows anti-inflammatory activity on cytokine IL-6 and TNF- $\alpha$ <sup>[1]</sup>.

#### In Vitro

Farobin A (compound 3) displays moderate antibacterial activity against *Streptococcus mutans* ATCC 25175 (inhibition rates of 28 %,) and *Streptococcus sobrinus* ATCC 33478 (inhibition rate of 26 %), at a concentration of 100  $\mu$ g/mL<sup>[1]</sup>. In RAW264.7 cells, when the lipopolysaccharide (LPS) (HY-D1056) stimulation concentration is 2463.9  $\mu$ g/mL and Farobin A is treated at a concentration of 100  $\mu$ g/mL, Farobin A decreases IL-6 production to 1051.8  $\mu$ g/mL. With an LPS stimulation concentration of 14,644.8  $\mu$ g/mL and the treatment with Farobin A at a concentration of 100  $\mu$ g/mL, Farobin A reduces TNF- $\alpha$  production to 9606  $\mu$ g/mL<sup>[1]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Hui Tan, et al. The discovery of an anti-inflammatory monoterpenoid, neoroseoside from the *Zea mays*. *Bioorg Med Chem Lett*. 2024 Jun 1:105:129737.

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

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