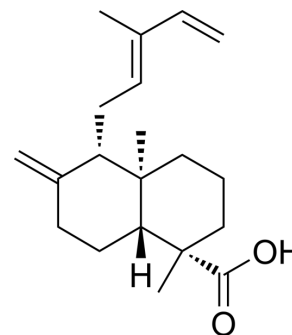


## Communic acid

<b>Cat. No.:</b>	HY-N3612
<b>CAS No.:</b>	2761-77-5
<b>Molecular Formula:</b>	C <sub>20</sub> H <sub>30</sub> O <sub>2</sub>
<b>Molecular Weight:</b>	302.45
<b>Target:</b>	Bacterial; Akt; MMP
<b>Pathway:</b>	Anti-infection; PI3K/Akt/mTOR; Metabolic Enzyme/Protease
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Communic acid ((+)-Communic acid) is a natural compound isolated from the branches of <i>Platycladus orientalis</i> . Communic acid displays minimum inhibitory concentration of 31 μM and IC <sub>50</sub> of 15 μM against <i>M. tuberculosis</i> H37Ra. Communic acid exhibits protective effects against UVB-induced skin aging <sup>[1][2][3]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	15 μM ( <i>M. tuberculosis</i> H37Ra) <sup>[2]</sup>

### REFERENCES

- [1]. Samoylenko V, et al. Antiparasitic, nematicidal and antifouling constituents from *Juniperus* berries. *Phytother Res.* 2008;22(12):1570-1576.
- [2]. Huh WB, et al. Brown Pine Leaf Extract and Its Active Component Trans-Communic Acid Inhibit UVB-Induced MMP-1 Expression by Targeting PI3K. *PLoS One.* 2015;10(6):e0128365. Published 2015 Jun 11.
- [3]. Carpenter CD, et al. Anti-mycobacterial natural products from the Canadian medicinal plant *Juniperus communis*. *J Ethnopharmacol.* 2012;143(2):695-700.

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

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