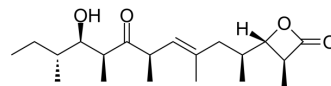


## Ebelactone A

Cat. No.:	HY-126564
CAS No.:	76808-16-7
Molecular Formula:	C <sub>20</sub> H <sub>34</sub> O <sub>4</sub>
Molecular Weight:	338.48
Target:	Lipase; MetAP
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Ebelactone A is a mycolic acid $\beta$ -lactone, which exhibits inhibitory activity for esterase, lipase, fMet aminopeptidase (fMet AP) and PNBBase, with IC <sub>50</sub> s of 56, 3, 8 and 7.5 $\mu$ M, respectively <sup>[1]</sup> . Ebelactone A inhibits cutinase, exhibits plants protective potency against <i>Erysiphe graminis</i> <sup>[2]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	56 $\mu$ M (esterase), 3 $\mu$ M (lipase), 8 $\mu$ M (fMet AP), 7.5 $\mu$ M (PNBBase)
<b>In Vitro</b>	Ebelactone A (0.1-1 mM) inhibits germination, AGT formation and sporulating colony formation on barley leaves <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Umezawa H, et al., Ebelactone, an inhibitor of esterase, produced by actinomycetes. *J Antibiot (Tokyo)*. 1980 Dec;33(12):1594-6.

[2]. Francis S A, et al., The role of cutinase in germling development and infection by *Erysiphe graminis* f. sp. hordei[J]. *Physiological and Molecular Plant Pathology*, 1996, 49(3): 201-211.

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

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