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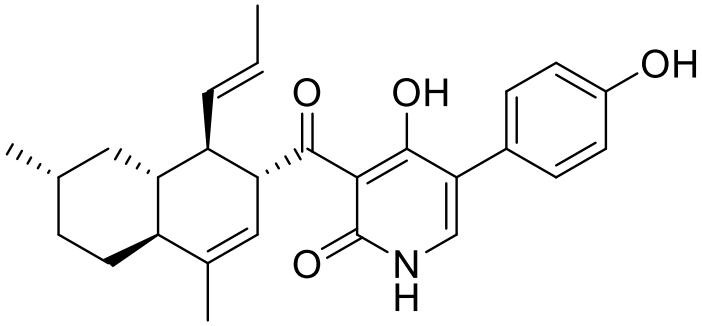
PRODUCT DATA SHEET

Ilicicolin H

Code No.: **BIA-I3086**

Pack sizes: **0.5 mg, 2.5 mg**



Synonyms : Illicicolin H

Specifications

CAS #	:	**12689-26-8**
Molecular Formula	:	**$C_{27}H_{31}NO_4$**
Molecular Weight	:	**433.5**
Source	:	***Neonectria* sp.**
Appearance	:	**White solid**
Purity	:	**>95% by HPLC**
Long Term Storage	:	**-20°C**
Solubility	:	**Soluble in methanol and DMSO.**

Application Notes

Ilicicolin H was first isolated by Hayakawa and co-workers, Shionogi & Co. Ltd, Japan from Cylindrocladium ilicicola in 1971. Ilicicolin H is a polyketide-nonribosomal peptide synthase (NRPS) with antitumor and antibacterial activity. Ilicicolin H is a potent, broad-spectrum antifungal agent and a potent inhibitor of mitochondrial respiration in yeast by binding to the Qn site of the cytochrome bc1 complex.

References

1. Hayakawa S. et al. (1971). The ilicicolins, antibiotics from Cylindrocladium ilicicola. J. Antibiot. XXIV, 653.
2. Gutierrez-Cirlos E.B. et al. (2004). Inhibition of the yeast cytochrome bc1 complex by ilicicolin H, a novel inhibitor that acts at the Qn site of the bc1 complex. JBC, 279, 8708.
3. Xiaojing L. et al. (2019). Heterologous expression of ilicicolin H biosynthetic gene cluster and production of a new potent antifungal reagent, ilicicolin J. Molecules, 24, 2267.

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