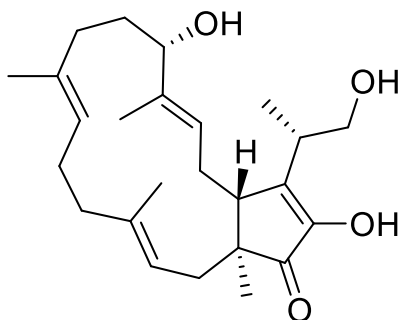


Terpestacin

Code No.: **BIA-T2929**

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



Synonyms :

Specifications

CAS #	: 146436-22-8
Molecular Formula	: C ₂₅ H ₃₈ O ₄
Molecular Weight	: 402.6
Source	: <i>Bipolaris</i> sp.
Appearance	: Off-white solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO.

Application Notes

Terpestacin is a bicyclo sesterpene produced by *Arthrinium* and other fungal species first reported in 1993 by Iimura and colleagues at the Bristol Myers Squibb Research Institute, Japan. Terpestacin inhibits syncytium formation induced by HIV infection. Terpestacin inhibits the growth of the phytopathogenic fungi, *Alternaria brassicicola*, *Botrytis cinerea* and *Fusarium graminearum*. Terpestacin inhibits angiogenesis via the ERK pathway and binds with UQCRB subunit of mitochondrial Complex III, resulting in inhibition of hypoxia-induced reactive oxygen species generation.

References

1. Terpestacin, a novel syncytium formation inhibitor, isolated from *Arthrinium* species. Iimura S. et al. *Tetrahedron Lett* 1993, 34, 493.
2. Fusaproliferin, terpestacin and their derivatives display variable allelopathic activity against some ascomycetous fungi. Cimmino A. et al. *Chem Biodiv* 2016, 13, 1593.
3. Anti-angiogenic activity of terpestacin, a bicyclo sesterterpene from *Embellisia chlamydospora*. Jung H.J. et al. *J Antibiot* 2003, 56, 492.
4. Terpestacin inhibits tumor angiogenesis by targeting UQCRB of mitochondrial complex III and suppressing hypoxia-induced reactive oxygen species production and cellular oxygen sensing. Jung H.J. et al. *J Biol Chem* 2010, 285, 11584.