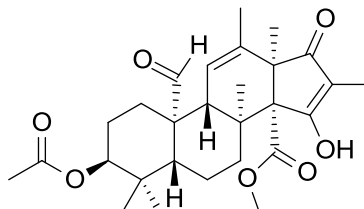


Andrastin A

Code No.: **BIA-A1649**

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



Synonyms : NSC 697452

Specifications

CAS # : **174232-42-9**
Molecular Formula : **C₂₈H₃₈O₇**
Molecular Weight : **486.6**
Source : ***Penicillium sp.***
Appearance : **Yellow solid**
Purity : **>95% by HPLC**
Long Term Storage : **-20°C**
Solubility : **Soluble in ethanol, methanol, DMF or DMSO.**

Application Notes

Andrastin A is a potent inhibitor of protein farnesyltransferase (PFTase) isolated by Omura and co-workers at the Kitasato Institute, Japan in 1996. Andrastin A is a meroterpenoid with an androstane skeleton biosynthesized from a sesquiterpene and a tetraketide. The cyclopentane ring of andrastin A exhibits characteristic keto-enol tautomerism. Andrastin A is potently active against mammalian tumor cell lines and is devoid of antimicrobial activity.

References

1. Andrastins A ~ C, new protein farnesyltransferase inhibitors produced by *Penicillium sp.* FO-3929.I. Producing strain, fermentation, isolation and biological activities. Omura S. et al., J. Antibiot. 1996, 49, 414.
2. Andrastins A ~ C, new protein farnesyltransferase inhibitors produced by *Penicillium sp.* FO-3929.II. Structure elucidation and biosynthesis. Uchida R. et al., J. Antibiot. 1996, 49, 418.
3. Reconstituted biosynthesis of fungal meroterpenoid andrastin A. Matsuda Y. et al., Tetrahedron 2013, 69, 8199.