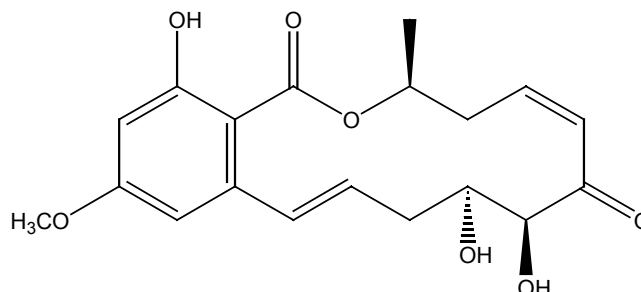


Antibiotic LL Z1640-2

Code: BIA-L1160

Pack sizes: 1 mg, 5 mg



Synonyms : **Antibiotic C292, Antibiotic L 783278**

Specifications

CAS # : **66018-38-0**
Molecular Formula : **C₁₉H₂₂O₇**
Molecular Weight : **362.4**
Source : ***Curvularia* sp. MST-FP2097**
Appearance : **White solid**
Purity : **>99% by HPLC**
Long Term Storage : **-20°C**
Solubility : **Soluble in ethanol, methanol, DMF or DMSO. Limited water solubility.**

Application Notes

Antibiotic LL Z1640-2 is a cis-enone resorcylic acid lactone first reported in 1978 and later rediscovered as an irreversible and highly selective TAK 1 inhibitor. TAK1 is a MAPKKK involved in the p38 signalling cascade for pro-inflammation signals such as cytokines. LL Z1640-2 effectively prevents inflammation in animal models.

References

1. New zearalenone related macrolides and isocoumarins from an unidentified fungus. Ellestad G. A. et al., J. Org. Chem. **1978**, 43, 2339.
2. A resorcylic acid lactone, 5Z-7-oxozeaenol, prevents inflammation by inhibiting the catalytic activity of TAK1 MAPK kinase kinase. J. Ninomiya-Tsuji J. et al., J. Biol. Chem. **2003**, 278, 18485.