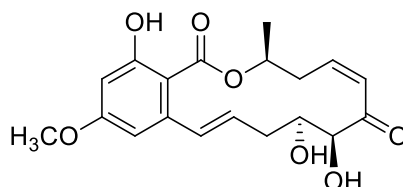


LL Z1640-2

Code No.: **BIA-L1160**

Pack sizes: **1 mg, 5 mg**



Synonyms : C292, L 783278, 5Z-7-Oxozeaenol

Specifications

CAS #	: 253863-19-3
Molecular Formula	: C ₁₉ H ₂₂ O ₇
Molecular Weight	: 362.4
Source	: <i>Curvularia</i> sp.
Appearance	: White solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Limited water solubility.

Application Notes

LL Z1640-2 (5Z-7-oxozeaenol) 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.