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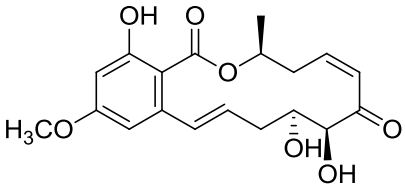
PRODUCT DATA SHEET

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	:	***Curvularia* sp.**
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

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.

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