PRODUCT DATA SHEET

Ascochlorin

Code No.: BIA-A1115
Pack sizes: 0.5 mg, 2.5 mg

Synonyms: LL-Z 1272 gamma, Ilicicolin D

Specifications
CAS #: 26166-39-2
Molecular Formula: C_{23}H_{29}ClO_4
Molecular Weight: 404.9
Source: Acremonium sp.
Appearance: White powder
Purity: >98% by HPLC
Long Term Storage: -20°C
Solubility: Soluble in ethanol, methanol, DMF or DMSO. Limited water solubility.

Application Notes
Ascochlorin is an antitumour fungal metabolite which specifically inhibits matrix metalloproteinase-9 (MMP9) activity through suppression of activator protein-1 (AP-1)-dependent induction of MMP-9 gene expression. Via AP-1 suppression, ascochlorin selectively kills MX-1 cells, a human breast cancer cell line lacking estrogen receptors. Ascochlorin also shows activity against Newcastle disease and herpes simplex viruses.

References

Updated: 15 August 2014