Luzopeptin A
Item No. 18444

CAS Registry No.: 75580-37-9
Formal Name: Luzopeptin A
Synonym: BBM-928A
MF: C₆₄H₁₇₈N₁₄O₂₄
FW: 1,427.4
Purity: ≥95%
Supplied as: A tan solid
Storage: -20°C
Stability: ≥4 years
Item Origin: Bacteria/Actinomadura

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Luzopeptin A is supplied as a tan solid. A stock solution may be made by dissolving the luzopeptin A in the solvent of choice, which should be purged with an inert gas. Luzopeptin A is soluble in DMSO and dimethyl formamide.

Description

Luzopeptin A is a cyclic depsipeptide antibiotic first isolated from an actinomycete strain.¹,² It displays antitumor activity, as it is highly active in mice against a variety of experimental tumors.¹ Luzopeptin A acts as a bifunctional DNA intercalator that strongly binds DNA and forms crosslinks between DNA molecules.³ It also inhibits reverse transcriptases from HIV-1 and HIV-2 (IC₅₀ = 7 and 68 nM, respectively), as well as cellular DNA polymerases.⁴,⁵

References