



Luzopeptin A PRODUCT DATA SHEET

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Product Name:	Luzopeptin A
Product Number:	L041
CAS Number:	75580-37-9
Molecular Formula:	C ₆₄ H ₇₈ N ₁₄ O ₂₄
Molecular Weight:	1427.4
Appearance:	Tan solid
Storage Conditions:	-20°C
Description:	<p>Luzopeptin A is a member of the echinomycin (quinomycin A) class of antitumor and antibiotic agents. Luzopeptin A is also a potent inhibitor of HIV-1 reverse transcriptase.</p> <p>Luzopeptin A is soluble in DMF or DMSO. Moderately soluble in methanol or ethanol. Poor water solubility.</p>
Mechanism of Action:	Luzopeptin A acts by forming a stable DNA complex by bis-intercalation.
References:	<p>BBM-928, a new antitumor antibiotic complex I. Production, isolation, characterization and antitumor activity. Ohkuma, H. et al. , J. Antibiot. 1980, 33, 1087.</p> <p>Screening for inhibitors of avian myeloblastosis virus reverse transcriptase and effect on the replication of AIDS virus. Inouye Y.J. Antibiot. 1987, 40, 100.</p> <p>Proton exchange in DNA-luzopeptin and DNA-echinomycin bisintercalation complexes: rates and processes of base-pair opening. Leroy J.L. et al. Biochemistry. 1992, 31, 1407.</p>

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