Aspartocin D
Item No. 23143

CAS Registry No.: 1211953-97-7
Formal Name: N-[(3Z)-10-methyl-1-oxo-3-undecen-1-yl]L-α-aspartyl-(25,3R)-2,3-diaminobutanoyl-(2R)-2-piperidinecarbonyl-(3S)-3-methyl-L-α-aspartyl-L-α-aspartylglycyl-L-α-aspartylglycyl-(2R,3R)-2,3-diaminobutanoyl-L-valyl-L-proline (11→2)-lactam

MF: C₅₇H₈₉N₁₃O₂₀
FW: 1,276.4
Purity: ≥85%
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years

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

Laboratory Procedures

Aspartocin D is supplied as a solid. A stock solution may be made by dissolving aspartocin D in the solvent of choice. Aspartocin D is soluble in organic solvents such as ethanol, methanol, DMSO, and dimethyl formamide, which should be purged with an inert gas.

Description

Aspartocin D is a lipopeptide antibiotic originally isolated from S. canus FIM0916.¹ It has activity against Gram-positive bacteria, including B. subtilis and S. aureus (MICs = 0.125 and 0.5 μg/ml, respectively). The antibiotic activity is calcium-dependent, with MICs ranging from 0.06-4 and 0.25-8 μg/ml for B. subtilis and S. aureus, respectively, in the presence of higher (2.5 mM) to lower (0.125 mM) calcium concentrations.

Reference


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