PRODUCT INFORMATION

Nosiheptide
Item No. 17094

CAS Registry No.: 56377-79-8
Formal Name: N-[1-(aminocarbonyl)ethenyl]-2-[(11S,14Z,215,23S,29S)-14-ethylidene-9,10,11,12,13,14,19,20,21,22,23,24,26,33,35,36-hexadecahydro-3,23-dihydroxy-11-[(1R)-1-hydroxyethyl]-31-methyl-9,12,19,24,33,43-hexaoxo-30,32-imino-8,5:18,15:40,37-trinitrilo-21,36-(2,4)-endothiazolomethanimino)-4-thiazolecarboxamide
Synonyms: Multhiomycin, NSC 307240, RP 9671
MF: C₅₁H₄₃N₁₃O₁₂S₆
FW: 1,222.4
Purity: ≥95%
Supplied as: A solid
Storage: -20°C
Stability: ≥2 years

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

Laboratory Procedures

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

Nosiheptide is sparingly soluble in aqueous solutions. To enhance aqueous solubility, dilute the organic solvent solution into aqueous buffers or isotonic saline. If performing biological experiments, ensure the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

Description

Nosiheptide is a thiopeptide antibiotic that inhibits bacterial protein synthesis by interfering with the function of elongation factors.¹ ² It is effective against many different methicillin-resistant S. aureus strains (MICs ≤ 0.25 mg/L), Enterococcus spp (MICs ≤ 0.125 mg/L), and the BI strain of C. difficile (MIC = 0.008 mg/L) but inactive against most Gram-negative bacteria.³

References


WARNING
This product is for research only - not for human or veterinary diagnostic or therapeutic use.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY
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