Colistin sulfate ab143385

Overview

Product name: Colistin sulfate
Description: Cationic polypeptide antibiotic
Biological description: Cationic polypeptide antibiotic. Interacts with bacterial cell membranes displacing counter ions in lipopolysaccharides solubilizing the membrane. Active in vivo.

Properties

Chemical name: \(N\-{\text{(2S)-4-Amino-1-[[\text{(2S,3R)-1-[[\text{(2S)-4-amino-1-oxo-1-[[3S,6S,9S,12S,15R,18S,21S)-6,9,18-tris(2-aminoethyl)-3-[[1R-1-hydroxyethyl]-12,15-bis(2-methylpropyl)-2,5,8,11,14,17,20-heptaoxo-1,4,7,10,13,16,19-heptazacyclotricos-21-y|amino]butan-2-y|amino]-3-hydroxy-1-oxobutanyl-2-y|amino]-1-oxobutan-2-y|5-methylheptanamide}}\)
Molecular weight: 1267.55
Chemical structure:

\[
\text{C}_{52}\text{H}_{98}\text{N}_{16}\text{O}_{13}
\]
CAS Number: 1264-72-8
PubChem identifier: 5311054
Storage instructions: Store at +4°C. The product can be stored for up to 12 months.
Solubility overview: Soluble in water
Handling:
Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one week. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.
Toxic, refer to SDS for further information.

Need more advice on solubility, usage and handling? Please visit our frequently asked questions
Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE, NOT FOR USE IN HUMANS"

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