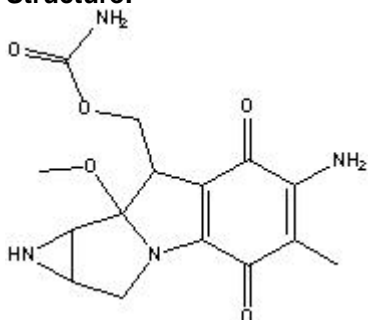


TECHNICAL INFORMATION

Catalog Number: 100498, 194532

Mitomycin C

Structure:



Molecular Formula: C₁₅H₁₈N₄O₅

Molecular Weight: 334.3

CAS #: 50-07-7

Synonyms: Ametycin; 7-Amino-9-a-methoxymitosane; Mit-C; Mitocin-C; Mitomycinum; Mutamycin; Azirizino[2', 3': 3,4] pyrrolo [1,2-a] indole 4,7-dione-6-amino-1,1a, 2, 8, 8a, 8b-hexahydro- 8- (hydroxymethyl) 8a-methoxy-5-methyl carbamate

Source: *Streptomyces caespitosus*

Form: Dark blue powder. No additional salts added (NaCl free).

Solubility: Soluble in dilute aqueous acids or dilute aqueous bases. pH stability is at a pH of 6 to 9.

Description: Inhibitor of DNA synthesis¹, nuclear division² and cancer cells.² Antibacterial to gram positive, gram negative and acid-fast bacilli.

Mitomycin C decomposes DNA in cancer cells by forming a complex with DNA and inhibits division of cancer cells by interfering with the biosynthesis of DNA.

Availability:

Catalog Number	Description	Size
100498	Mitomycin C	2 mg 10 mg 20 mg
194532	Mitomycin C, cell culture reagent	2 mg

References:

- Tomasz, M, et. al., *Science*, v. **235**, 1204 (1987).
- Veda, M., et. al., *Nucl. Acids Res.*, v. **12**, 6673 (1984).
- *Merck Index 12thEd.*, No 6301