

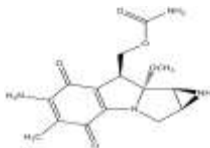
Product: Mitomycin C

ALTERNATE NAME: [1aS-(1α,8β,8α,8bα)]-6-Amino-8-[[[(aminocarbonyl)oxy]methyl]-1,1a,2,8,8a,8b-hexahydro-8a-methoxy-5-methylazirino[2',3':3,4]pyrrolo[1,2-a]indole-4,7-dione; Ametycine

CATALOG #: 2713-2, 5, 25

AMOUNT: 2 mg, 5 mg, 25 mg

STRUCTURE:



MOLECULAR FORMULA: C₁₅H₁₈N₄O₅

MOLECULAR WEIGHT: 334.33

CAS NUMBER: 50-07-7

APPEARANCE: Bluish crystalline solid

SOLUBILITY: DMSO (~15 mg/ml) or H₂O (~0.5 mg/ml)

POTENCY: ≥970 µg/mg

STORAGE: Store at +4 °C. Protect from air and light

DESCRIPTION: Mitomycin C is an antitumor antibiotic isolated from *Streptomyces* sp. Mitomycin is activated by reduction *in vivo* generating oxygen radicals which produce crosslinks in DNA by alkylation. This mechanism ultimately inhibits DNA synthesis which has a bacteriostatic effect. Mitomycin C has strong antitumor activity, especially against Ehrlich ascites tumor cells, and strong bactericidal action against gram-positive and gram-negative bacteria.

REFERENCES: Tomasz, M., *et al.* (1987). *Science* **235**, 1204-1208.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

Amphotericin B (Cat. No. 2497-250, 1G, 5G)
 Ampicillin trihydrate (Cat. No. 2483-1 G, 5G, 25 G)
 Ampicillin sodium (Cat. No. 2484-1G, 5G, 25G)
 EZSolution™ Ampicillin sodium (Cat. No. 2499-10)
 Betulinic Acid (Cat. No. 1552-25)
 Bexarotene (Cat. No. 1575-5, 50)
 Blasticidin S, Hydrochloride (Cat. No. 1859-25,100)
 Capecitabine (Cat. No. 1741-100, 1000)
 Carboplatin (Cat. No. 1553-100)
 Chloramphenicol (Cat. No. 2486-25G, 100G, 500G)
 Cisplatin (Cat. No. 1550-100,1000)
 Cycloheximide (Cat. No. 1041-1G, 5G)
 Cycloheximide (100 mM) (Cat. No. 1041-1)
 Daptomycin (Cat. No. 2582-10, 50)
 Daunorubicin.HCl (1524-10,50,500)
 Doxorubicin HCl (Cat. No. 1527-5)
 Fludarabine Phosphate (Cat. No. 1763-10, 50)
 G-418 Sulfate (Cat. No. 1557-100, 5G, 25G)
 Gemcitabine Hydrochloride (Cat. No. 1759-25, 100)
 Genistein (Cat. No. 1533-10)
 Hygromycin B (Cat. No. 2589-100, 500, 1000)
 Nedaplatin (Cat. No. 1576-5)
 Oxaliplatin (Cat. No. 1577-25)
 Paclitaxel (Cat. No. 1567-25)
 Penicillin G sodium (Cat. No. 2503-100, 500)
 Penicillin G potassium (Cat. No. 2504-25, 100)
 Polymyxin B Sulfate (Cat. No. 2496-10, 50, 100)
 Puromycin DiHydrochloride (Cat. No. 1860-25, 100, 250, 500,1000)
 EZSolution™ Puromycin Dihydrochloride (Cat. No. 1861-100)
 Streptozocin (Cat. No. 1930-100, 500, 1000)
 Tamoxifen Citrate (Cat. No. 1551-1000)

FOR RESEARCH USE ONLY! Not to be used on humans.