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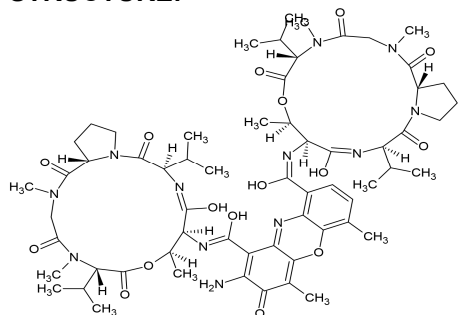
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Actinomycin D

ALTERNATE NAME: 2-amino-4,6-dimethyl-3-oxo-1-*N*,9-*N*-bis[(3*R*,6*S*,7*R*,10*S*,16*S*)-7,11,14-trimethyl-2,5,9,12,15-pentaoxo-3,10-di(propan-2-yl)-8-oxa-1,4,11,14-tetrazabicyclo[14.3.0]nonadecan-6-yl]phenoxazine-1,9-dicarboxamide; Dactinomycin

CATALOG #: AUR10033

STRUCTURE:



MOLECULAR FORMULA: C₆₂H₈₆N₁₂O₁₆

MOLECULAR WEIGHT: 1255.43

CAS#: 50-76-0

APPEARANCE: Red solid

FORMULATION: DMSO (>50 mg/ml)

PURITY: ≥98% by TLC

STORAGE: Store at -20°C. Protect from air and light

DESCRIPTION: An antineoplastic antibiotic. Inhibits DNA-primed RNA polymerase by complexing with DNA via deoxyguanosine residues. A DNA-intercalator with growth inhibitory activity against certain leukemias and sarcomas. At higher concentrations, DNA polymerase is inhibited. Inhibits cell growth and colony formation in synchronized HeLa cells. A potent inducer of apoptosis in many cell lines.

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