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DATASHEET

Actinomycin D

Product overview

Name	Actinomycin D
Cat No	HB1477
Description	RNA polymerase inhibitor. Apoptosis inducer.
Biological action	Antibiotic
Applications	Antineoplastic Agent, Cell Culture, Selection Agent
Purity	>98%

Biological Data

Biological description	RNA polymerase inhibitor and RNA synthesis inhibitor. DNA intercalating agent. Shows antitumor and cytotoxic effects. Also induces apoptosis.
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Solubility & Handling

Storage instructions	+4 °C
Solubility overview	Soluble in DMSO (50 mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	2-Amino-(N,N)-1-bis(hexadecahydro-6,13-diisopropyl-2,5,9-trimethyl-1,4,7,11,14-penta-oxo-1H-pyrrolo[2,1]-[1,4,7,10,13] oxatetraazacyclohexadecin-10-yl)-4,6-dimethyl-3-oxo-3H-phenoxazine-1,9-dicarboxamide
Molecular Weight	1255.43
Chemical structure	
Molecular Formula	C ₆₂ H ₈₆ N ₁₂ O ₁₆
CAS Number	50-76-0
PubChem identifier	2019
SMILES	CC1C(C(=O)NC(C(=O)N2CCCC2C(=O)N(CC(=O)N(C(C(=O)O1)C(C)C)C)C(C)C)NC(=O)C3=C4C(=C(C=C3)C)OC5=C(C(=O)C(=C(C5=N4)C(=O)NC6C(OC(=O)C(N(C(=O)CN(C(=O)C7CCCN7C(=O)C(NC6=O)C(C)C)C)C(C)C)N)C
InChiKey	RJURFGZVJUQBHK-LIAOQTPJSA-N
MDL number	MFCD00005033
Appearance	Red shiny crystals