## abcam

### Product datasheet

# Actinomycin D (Dactinomycin), Nucleic acid and protein synthesis inhibitor ab141058

13 References 1 Image

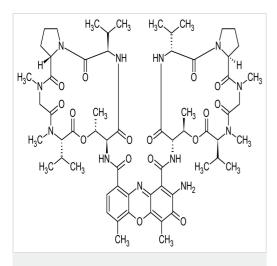
Overview	
Product name	Actinomycin D (Dactinomycin), Nucleic acid and protein synthesis inhibitor
Description	Nucleic acid and protein synthesis inhibitor
Biological description	Nucleic acid and protein synthesis inhibitor. Intercalates DNA, stabilizes topoisomerases I and II and inhibits transcription. Antibacterial and antitumor agent. Active <i>in vivo</i> and <i>in vitro</i> .
Purity	> 98%
General notes	This product is hygroscopic. Unused dilute solutions of Actinomycin D are extremely sensitive to light and tend to adsorb to plastic and
	glass and should be discarded. How ever, frozen aliquots of concentrated stock solution are stable for at least a month.
CAS Number	50-76-0
Chemical structure	$H_{3}C, N \downarrow O \\ H_{3}C, N \downarrow $

#### **Properties**

Chemical name	2-Amino-4,6-dimethyl-3-oxo-1- <i>N</i> ,9- <i>N</i> -bis[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
Molecular weight	1255.43
Molecular formula	C <sub>62</sub> H <sub>86</sub> N <sub>12</sub> O <sub>16</sub>
PubChem identifier	2019
Storage instructions	Shipped at 4°C. Store at +4°C. It is important to note that this product is reported to be light sensitive. Please see notes section. Store In the Dark.
Solubility overview	Soluble in acetonitrilie or acetone at 10 mg/mL and in DMSO at a minimum of 1 mg/mL.

Handling	Toxic, refer to SDS for further information.
	Need more advice on solubility, usage and handling? Please visit our <u>frequently asked</u> questions (FAQ) page for more details.
SMILES	CC1C(C(=O)NC(C(=O)N2CCCC2C(=O)N(CC(=O)N(C(C(=O)O1)C(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)C7C CCN7C(=O)C(NC6=O)C(C)C)C)C)C)C)C)C)N)C
Source	Streptomyces sp.

#### Images



2D chemical structure image of ab141058, Actinomycin D (Dactinomycin), Nucleic acid and protein synthesis inhibitor

Chemical Structure - Actinomycin D (Dactinomycin), Nucleic acid and protein synthesis inhibitor (ab141058)

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