

Product datasheet

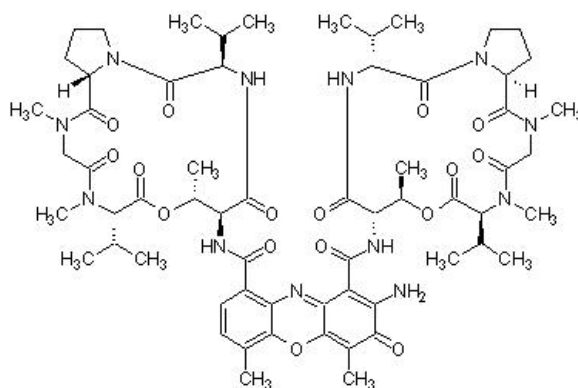
# Actinomycin D (Dactinomycin), Nucleic acid and protein synthesis inhibitor ab141058

9 References 1 Image

Overview

<b>Product name</b>	Actinomycin D (Dactinomycin), Nucleic acid and protein synthesis inhibitor
<b>Description</b>	Nucleic acid and protein synthesis inhibitor
<b>Biological description</b>	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> .
<b>Purity</b>	> 98%
<b>General notes</b>	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. However, frozen aliquots of concentrated stock solution are stable for at least a month.
<b>CAS Number</b>	50-76-0

Chemical structure



Properties

<b>Chemical name</b>	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-tetraazabicyclo[14.3.0]nonadecan-6-yl]phenoxazine-1,9-dicarboxamide
<b>Molecular weight</b>	1255.43
<b>Molecular formula</b>	C <sub>62</sub> H <sub>86</sub> N <sub>12</sub> O <sub>16</sub>
<b>PubChem identifier</b>	2019
<b>Storage instructions</b>	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.
<b>Solubility overview</b>	Soluble in acetonitrile or acetone at 10 mg/mL and in DMSO at a minimum of 1 mg/mL.

## Handling

Need more advice on solubility, usage and handling? Please visit our [frequently asked questions \(FAQ\) page](#) for more details.

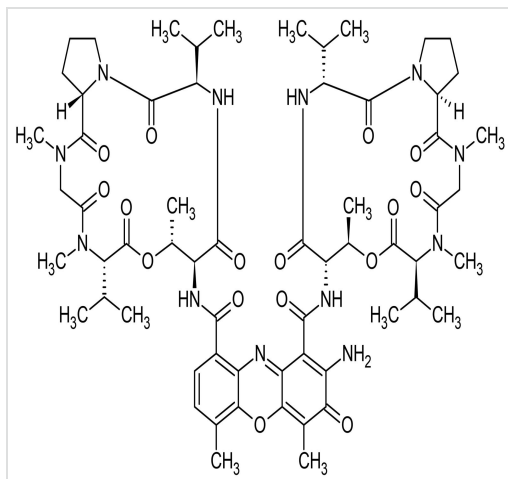
## SMILES

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## 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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