

**BVT-0375**

**Actinomycin X<sub>2</sub>**

Formula	C <sub>59</sub> H <sub>78</sub> N <sub>12</sub> O <sub>17</sub>
MW	1.227,3
CAS	1402-61-5
Merck Index	unlisted
RTECS	unlisted

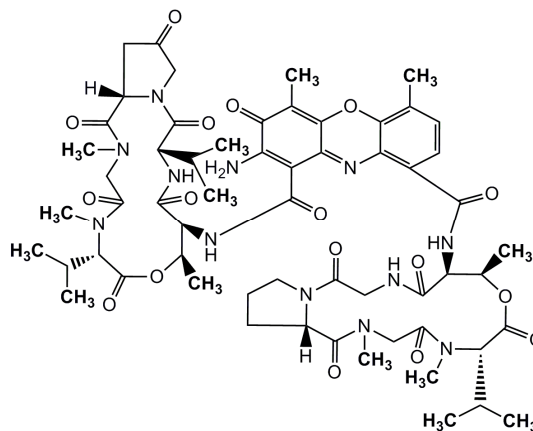
*2-amino-N1-((6S,9R,10S,13S,18aS)-6,13-diisopropyl-2,5,9-trimethyl-1,4,7,11,14,17-hexaoxohexadecahydro-1H-pyrrolo[2,1-ij][1,4,7,10,13]oxatetraazacyclohexadecin-10-yl)-N9-((6S,9R,10S,18aS)-6-isopropyl-2,5,9-trimethyl-1,4,7,11,14-pentaoxohexadecahydro-1H-pyrrolo[2,1-ij][1,4,7,10,13]oxatetraazacyclohexadecin-10-yl)-4,6-dimethyl-3-oxo-3H-phenoxazine-1,9-dicarboxamide*

**Handling / Storage**

Shipping	Ambient
Short term storage	+4°C
Long term storage	+4°C
Keep cool and dry	
Protect from light	

**Use / Stability**

Store, as supplied, at -20°C for up to 1 year.  
Store solutions dark and at -20°C



**Hazard / Toxicity**

TOXIC, MSDS available upon request.

**Declaration**

Only if available and needed!

**Product Specifications**

Source/Host	Isolated from <i>Streptomyces</i> sp.
Purity Detail	>98% (solvent free) Determined by <sup>1</sup> H-NMR; identical to standard reference
Appearance	Orange crystals
Solubility	Soluble in methanol, acetone or chloroform.
Formulation	X
Concentration	X
Melting Point	X

**Other Product Data**

Activity / Identity / Endotoxin Content

**WARNING:** Intended for research use only. This product is not intended or approved for human, diagnostics, therapeutic or veterinary use. Use of this product for human or animal testing is extremely hazardous and may result in disease, severe injury, or death. **MATERIAL SAFETY DATA:** Review the complete Material Safety Data Sheet before use.

**Product Description**

- *Aniso-Actinomycin*
- Antitumor antibiotic.
- Has higher cytotoxicity toward cultured human leukemia (HL-60) cells than actinomycin D
- Induces cell death via apoptosis.

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**Product Specific References**

1. *The actinomycins: A. B. Mauger and H. Lackner, In: Anticancer agents from natural products, pp. 281-298, CRC Press (2005). Review*
2. *Characterization of streptomyces MITKK-103, a newly isolated Actinomycin X<sub>2</sub>-producer: K. Kurosawa, et al.; Appl Microbiol Biotechnol 72, 145 (2006).*

**Analytical Data**

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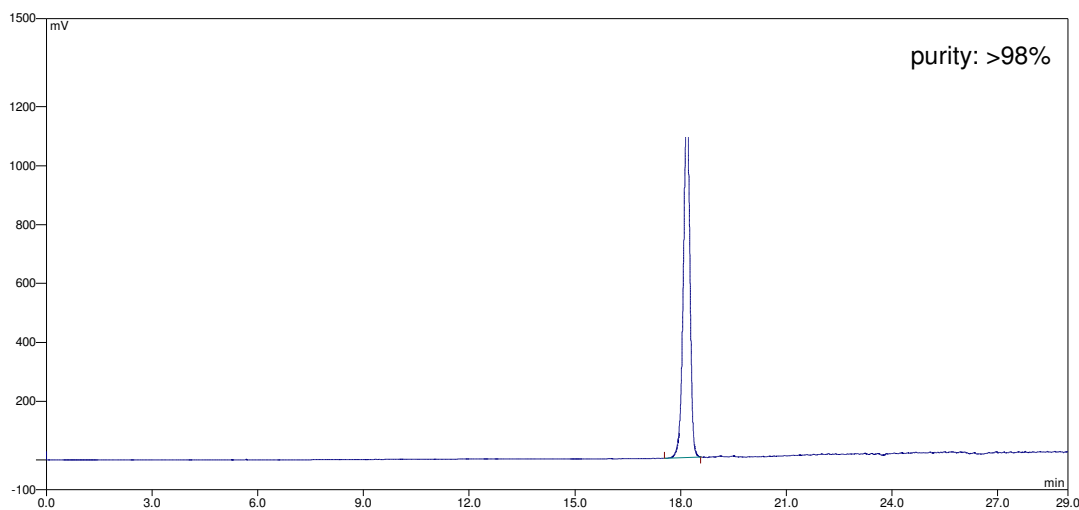
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For Local Distributors see  
www.axxora.com

**HPLC Data**

Solvent system: CH<sub>3</sub>CN/H<sub>2</sub>O (0.1% TFA) gradient  
Detection: ELSD

Column: Nucleodur<sup>®</sup> C18 / 5µm 250x3 mm

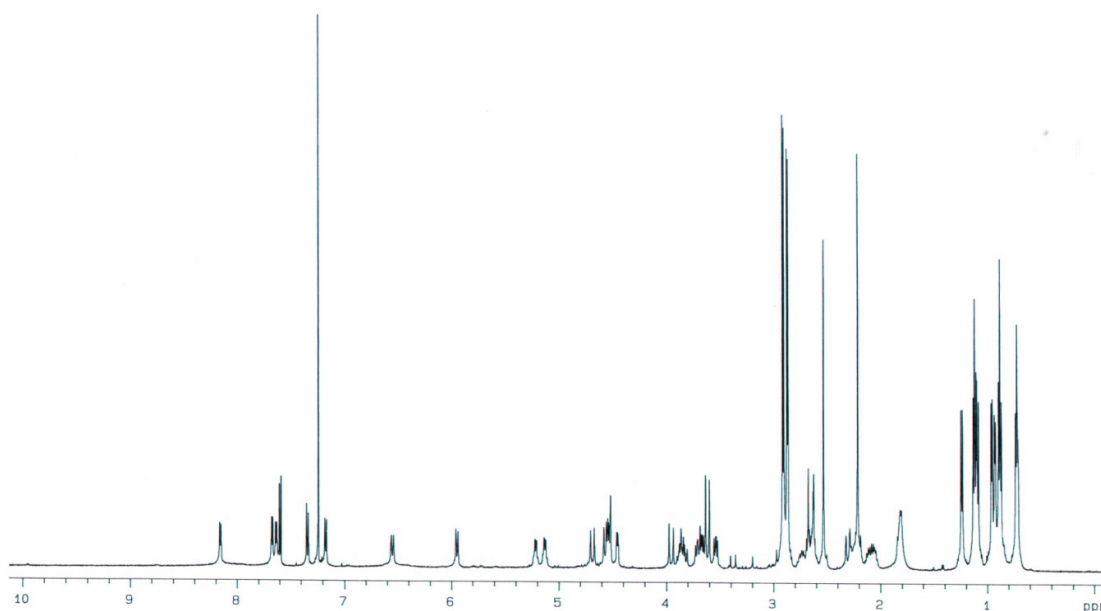


**<sup>1</sup>H-NMR Data**

Solvent: CDCl<sub>3</sub>

Temperature: RT

Frequency: 500 MHz



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