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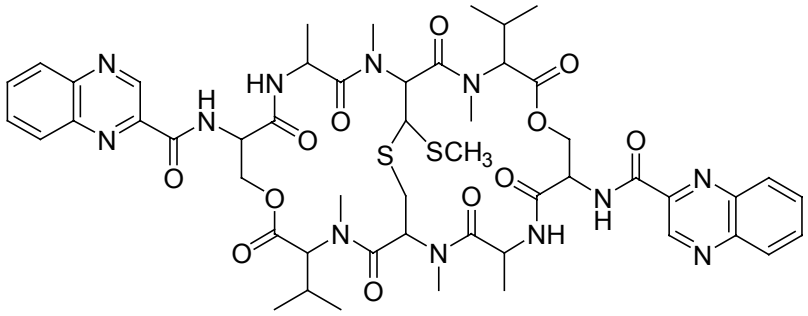
PRODUCT DATA SHEET

Quinomycin A

Code: **BIA-Q1102**

Pack sizes: **1.0 mg, 5.0 mg**



Synonyms : **Echinomycin, Actinoleukin, Antibiotic 1491, Antibiotic 59266, Antibiotic X 948, Antibiotic X 53III**

Specifications

CAS #	:	**512-64-1**
Molecular Formula	:	**$C_{51}H_{64}N_{12}O_{12}S_2$**
Molecular Weight	:	**1101.3**
Source	:	***Streptomyces* sp. MST-AS5446**
Appearance	:	**White solid**
Purity	:	**> 99% by HPLC**
Long Term Storage	:	**-20°C**
Solubility	:	**Soluble in ethanol, methanol, DMF or DMSO.**

Application Notes

Quiniomycin A is a cyclic depsipeptide metabolite. It has broad activity against bacteria, fungi and viruses and has found application as an antitumor agent. Quinomycin A acts by bifunctional intercalation of nucleic acids. Recent research has shown quinomycin A to be an extremely potent inhibitor of Hypoxia-inducible factor-1 (HIF-1). This transcription factor plays an essential role in tumor progression and metastasis.

References

1. Serendipitous SAD phasing of an echinomycin-(ACGTACGT)2 bisintercalation complex. Cuesta-Seijo J.A. et al. *Acta Crystallogr. D Biol. Crystallogr*. **2006**, 62, 417.
2. Echinomycin, a small-molecule inhibitor of hypoxia-inducible factor-1 DNA-binding activity. Kong D. et al. *Cancer Res*. **2005**, 65, 9047.
3. Echinomycin and a novel analogue induce apoptosis of HT-29 cells via the activation of MAP kinases pathway. Park J.Y. et al. *Pharmacol. Res*. **2004**, 50, 201.

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