

Product Name:	Quinomycin A
Product Number:	Q007
CAS Number:	512-64-1
Molecular Formula:	$C_{51}H_{64}N_{12}O_{12}S_2$
Molecular Weight:	1101.3
Appearance:	Fawn to off-white solid
Storage Conditions:	-20°C
Description:	<p>Quinomycin A is a cyclic depsipeptide metabolite. Quinomycin A 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.</p> <p>Quinomycin A is soluble in DMF and DMSO and has limited solubility in ethanol and methanol.</p>
References:	<p>Serendipitous SAD phasing of an echinomycin-(ACGTACGT)₂ bisintercalation complex. Cuesta-Seijo J.A. et al. Acta Crystallogr. D Biol. Crystallogr. 2006, 62, 417.</p> <p>Echinomycin, a small-molecule inhibitor of hypoxia-inducible factor-1 DNA-binding activity. Kong D. et al. Cancer Res. 2005, 65, 9047.</p> <p>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.</p>