

<b>Product Name:</b>	Enopeptin A
<b>Product Number:</b>	E040
<b>CAS Number:</b>	139601-96-0
<b>Molecular Formula:</b>	$C_{47}H_{57}N_7O_{11}$
<b>Molecular Weight:</b>	896.0
<b>Appearance:</b>	Yellow solid
<b>Storage Conditions:</b>	-20°C
<b>Description:</b>	<p>Enopeptin A is an unusual depsipeptide featuring a pentaenone side chain, reported as an antiviral by researchers at RIKEN in 1991. Enopeptin A has potent antibacterial activity against Gram positive and Gram negative bacteria, including MRSA. Enopeptin A is the most non-polar of the acyldepsipeptide (ADEP) antibiotics which include the recently rediscovered compounds, A54556 A and B.</p>
<b>Mechanism of Action:</b>	<p>Enopeptin A is soluble in ethanol, methanol, DMF or DMSO.</p> <p>Like other acyldepsipeptide (ADEP) antibiotics, Enopeptin A acts by activating and disregulating Clp-family proteins.</p>
<b>References:</b>	<p>The structure of enopeptins A and B, novel depsipeptide antibiotics. Koshino H. et al. Tetrahedron Letters 1991, 32, 7707.</p> <p>Enopeptin A, a novel depsipeptide antibiotic with anti-bacteriophage activity. Osada H. et al. J. Antibiot. 1991, 44, 1436.</p> <p>Structures of ClpP in complex with acyldepsipeptide antibiotics reveal its activation mechanism. Lee B-G. et al. Nature Struct. Mol. Biol. 2010, 17, 471.</p> <p>Medicinal chemistry optimization of acyldepsipeptides of the enopeptin class antibiotics. Hinzen B. et al. Chem. Med. Chem. 2006, 1, 689.</p>