

<b>Product Name:</b>	Pseudomonic acid
<b>Product Number:</b>	P095
<b>CAS Number:</b>	12650-69-0
<b>Molecular Formula:</b>	$C_{26}H_{44}O_9$
<b>Molecular Weight:</b>	500.6
<b>Appearance:</b>	White solid
<b>Storage Conditions:</b>	-20°C
<b>Description:</b>	<p>Pseudomonic acid is a potent antibiotic produced by <i>Pseudomonas fluorescens</i>, reported by Fuller et al. in 1971. Pseudomonic acid has broad spectrum activity against Gram positive bacteria and was approved for topical human use in 1985.</p> <p>Pseudomonic acid is soluble in ethanol, methanol, DMF and DMSO.</p>
<b>Mechanism of Action:</b>	<p>Pseudomonic acid acts as a potent and selective inhibitor of isoleucyl-tRNA synthetase.</p>
<b>References:</b>	<p>Pseudomonic acid: an antibiotic produced by <i>Pseudomonas fluorescens</i>. Fuller A.T. et al. , Nature 1971, 234, 416.</p> <p>Antibacterial activity of mupirocin (pseudomonic acid), a new antibiotic for topical use. Sutherland R., Antimicrob Agents Chemother. 1985, 27, 495.</p> <p>Inhibition of isoleucyl-transfer ribonucleic acid synthetase in <i>Echerichia coli</i> by pseudomonic acid. Hughes J. &amp; Mellows G., Biochem. J. 1978, 176, 305.</p>