

Product Name:	Avenaciolide
Product Number:	A136
CAS Number:	16993-42-3
Molecular Formula:	$C_{15}H_{22}O_4$
Molecular Weight:	266.3
Appearance:	Colourless residue
Storage Conditions:	-20°C
Description:	<p>Avenaciolide, a bicyclic bis-butylolactone, was isolated from <i>Aspergillus avenaceus</i> in 1963 as an antifungal agent. Avenaciolide inhibits glutamate transport and is also thought to act as an atypical ionophore.</p> <p>Avenaciolide is soluble in ethanol, methanol, DMF or DMSO.</p>
Mechanism of Action:	<p>Avenaciolide inhibits glutamate transport and is also thought to act as an atypical ionophore.</p>
References:	<p>Avenaciolide, an antifungal lactone from <i>Aspergillus avenaceus</i>. Brookes D. et al. J. Chem. Soc. 1963, 5385.</p> <p>Avenaciolide: a specific inhibitor of glutamate transport in rat liver mitochondria. McGivan J.D. & Chappell J.B. Biochem. J. 1970, 116, 37P.</p> <p>Ionophoric actions of avenaciolide on mitochondrial cations. Harris E.J. & Wimhurst J.M. Arch. Biochem. Biophys. 1974, 162, 426.</p>