

<b>Product Name:</b>	Moniliformin
<b>Product Number:</b>	M068
<b>CAS Number:</b>	71376-34-6
<b>Molecular Formula:</b>	C <sub>4</sub> HNO <sub>3</sub> Na
<b>Molecular Weight:</b>	120.0
<b>Appearance:</b>	Pale yellow powder
<b>Storage Conditions:</b>	-20°C
<b>Description:</b>	<p>Moniliformin is a potent, water-soluble mycotoxin produced by several species of <i>Fusarium</i>. Comparative toxicity studies of moniliformin in chicken cell lines revealed no toxicity to chondrocytes and macrophages, but toxicity to splenocytes, cardiac and skeletal myocytes.</p> <p>Moniliformin is soluble in ethanol, methanol, DMF or DMSO. Good water solubility.</p>
<b>Mechanism of Action:</b>	Moniliformin selectively inhibits mitochondrial oxidization of pyruvate and α-ketoglutarate, however the mode of action is not yet completely resolved.
<b>References:</b>	<p>Comparative cytotoxicity of fumonisin B1 and moniliformin in chicken primary cell cultures. Wu W. et al. Mycopathologia 1995, 132, 111</p> <p>A molecular mechanism for the toxic action of moniliformin, a mycotoxin produced by <i>Fusarium moniliforme</i>. Thiel P. G. Biochem. Pharmacol. 1978, 27, 483.</p> <p>Moniliformin, a metabolite of <i>Fusarium moniliforme</i> NRRL 6322: purification and toxicity. Burmeister H. R. et al. Appl. Environ. Microbiol. 1979, 37, 11.</p>