



# Micronomicin sulfate PRODUCT DATA SHEET

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<b>Product Name:</b>	Micronomicin sulfate
<b>Product Number:</b>	M018
<b>CAS Number:</b>	66803-19-8
<b>Molecular Formula:</b>	$C_{20}H_{41}N_5O_7 \cdot 2.5H_2SO_4$
<b>Molecular Weight:</b>	708.65
<b>Form:</b>	Powder
<b>Appearance:</b>	White to off-white powder
<b>Source:</b>	<i>Micromonospora sagamiensis</i>
<b>pH:</b>	3.5 - 5.5
<b>Optical Rotation:</b>	+110° to +130°
<b>Storage Conditions:</b>	2-8°C
<b>Description:</b>	Micronomicin sulfate is an aminoglycoside antibiotic commonly used against gram negative bacteria. Micronomicin sulfate is freely soluble in water.
<b>Mechanism of Action:</b>	Aminoglycoside antibiotics target the 30S ribosomal subunit resulting in an inability to read mRNA ultimately producing a faulty or nonexistent protein.
<b>References:</b>	Davis, Bernard D. "Mechanism of Bactericidal Action of Aminoglycosides." <i>Microbiological Reviews</i> 51.3 (1987): 341-50.

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