

Product Name:	Fusidic acid sodium
Product Number:	F005
CAS Number:	751-94-0
Molecular Formula:	C ₃₁ H ₄₇ O ₆ Na
Molecular Weight:	538.69
Form:	Powder
Appearance:	White to off-White powder
Water Content (Karl Fischer):	≤2.0%
Storage Conditions:	2-8°C
Description:	Fusidic acid is a bacteriostatic steroid antibiotic which targets protein synthesis in Gram-positive bacteria. Fusidic acid sodium is highly soluble in water (50 mg/mL).
Mechanism of Action:	Fusidic acid inhibits protein synthesis by preventing translocation by inhibiting ribosomal elongation factor G.
Spectrum:	Fusidic acid sodium targets Gram-positive bacteria namely those which cause skin infections.
Microbiology Applications	<p>Fusidic acid sodium is commonly used in clinical in vitro microbiological antimicrobial susceptibility tests (panels, discs, and MIC strips) against gram positive microbial isolates. Medical microbiologists use AST results to recommend antibiotic treatment options for infected patients. Representative MIC values include:</p> <ul style="list-style-type: none">• Methicillin resistant <i>Staphylococcus aureus</i> (MRSA) 0.12 µg/mL - 1.0 µg/mL• <i>Streptococcus epidermidis</i> 0.25 µg/mL <p>For a complete list of fusidic acid MIC values, click here.</p>
References:	Collignon, Peter, and John Turnidge. "Fusidic Acid in Vitro Activity." <i>International Journal of Antimicrobial Agents</i> 12.2 (1999): 45-58. Ncbi.gov. Web. 6 Dec. 2012.