

Product Name:	Enniatin
Product Number:	E039
CAS Number:	11113-62-5
Molecular Formula:	C ₃₃ H ₅₇ N ₃ O ₉ (for B)
Molecular Weight:	639.8 (for B)
Appearance:	White to off white powder
Storage Conditions:	-20°C
Description:	<p>Enniatins are a complex of depsipeptides produced by several <i>Fusarium</i> species. Typically, the complex contains 4 major components: A, A1, B and B1 together with minor amounts of enniatins C, D, E and F. The enniatins act as ionophores. Recently their effects on acyl-CoA cholesterol transferase, as nematocides and the selectivity of their antitumor action have received more focus.</p> <p>Enniatin complex is soluble in ethanol, methanol, DMF or DMSO. Poor water solubility.</p>
References:	<p>Ionophore antibiotics produced by the fungus <i>Fusarium orthoceras</i> var. <i>enniatum</i> and other <i>Fusaria</i>. Gaumann E. et al. , <i>Experientia</i> 1947, 3, 202.</p> <p>"Sandwich" complexation in cyclopeptides and its implications in membrane processes. Ivanov V.T. <i>Ann. N. Y. Acad. Sci.</i> 1975, 264, 221.</p> <p>Interaction of cyclic peptides and depsipeptides with calmodulin. Mereish K.A. et al. , <i>Pept. Res.</i> 1990, 3, 233.</p> <p>Enniatin has a new function as an inhibitor of Pdr5p, one of the ABC transporters in <i>Saccharomyces cerevisiae</i>. Hiraga K. et al. , <i>Biochem. Biophys. Res. Commun.</i> 2005, 328, 1119.</p> <p>Enniatin exerts p53-dependent cytostatic and p53-independent cytotoxic activities against human cancer cells. Dornetshuber R. et al. , <i>Chem. Res. Toxicol.</i> 2007, 20, 465.</p>