Enniatin B1
PRODUCT DATA SHEET

issue date 01/06/2020

Product Name:	Enniatin B1
Product Number:	E038
CAS Number:	19914-20-6
Molecular Formula:	$C_{34}H_{59}N_3O_9$
Molecular Weight:	653.9
Appearance:	White powder
Storage Conditions:	-20°C
Description:	Enniatins are a family of depsipeptide ionophores produced by several Fusarium species. Recently, the effects of the enniatins on acyl-CoA cholesterol transferase, transporters and the selectivity of their antitumor action have received more focus. Enniatin B1 is one of four major analogues of the enniatin complex. Enniatin B1 is soluble in ethanol, methanol, DMF or DMSO. Poor water solubility.
References:	Ionophore antibiotics produced by the fungus Fusarium orthoceras var. enniatum and other Fusaria. Gaumann E. et al. , Experientia 1947, 3, 202. "Sandwich" complexation in cyclopeptides and its implications in membrane processes. Ivanov V.T. Ann. N. Y. Acad. Sci. 1975, 264, 221. Interaction of cyclic peptides and depsipeptides with calmodulin. Mereish K.A. et al. , Pept. Res. 1990, 3, 233. Enniatin has a new function as an inhibitor of Pdr5p, one of the ABC transporters in Saccharomyces cerevisiae. Hiraga K. et al. , Biochem. Biophys. Res. Commun. 2005, 328, 1119. Enniatin exerts p53-dependent cytostatic and p53-independent cytotoxic activities against human cancer cells. Dornetshuber R. et al. , Chem. Res. Toxicol. 2007, 20, 465.