



epi-Avermectin B1a PRODUCT DATA SHEET

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Product Name:	epi-Avermectin B1a
Product Number:	A152
CAS Number:	106434-14-4
Molecular Formula:	$C_{48}H_{72}O_{14}$
Molecular Weight:	873.1
Description:	epi-Avermectin B1a is a base-catalysed intermediate in the decomposition of avermectin B1a. epi-Avermectin B1a is formed by epimerisation at the 2-position which ultimately rearranges irreversibly to the isomeric alkene analogue, Δ^2 -avermectin B1a. epi-Avermectin B1a is only very weakly active as a nematocide showing ~100-fold loss of biological activity compared with the parent avermectin. epi-Avermectin B1a is formed in vivo following treatment with avermectin and is an environmental degradation product.
References:	Base-catalyzed isomerization of avermectins. Pivnichny J.V. et al. J. Agric. Food Chem. 1988, 36, 826 Direct determination of avermectins in plasma at nanogram levels by High-Performance Liquid Chromatography. Pivnichny J.V. et al. J. Pharm. Sci. 1980, 72, 1447.

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