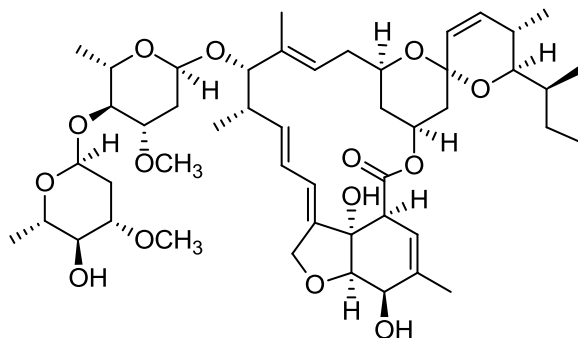


## *epi*-Avermectin B1a

Code No.: **BIA-A1576**

Pack sizes: **1 mg, 5 mg**



Synonyms :

## Specifications

CAS #	: 106434-14-4
Molecular Formula	: C <sub>48</sub> H <sub>72</sub> O <sub>14</sub>
Molecular Weight	: 873.1
Source	: Semi-synthetic
Appearance	: White solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO.

## Application Notes

*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,  $\Delta^2$ -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

1. Base-catalyzed isomerization of avermectins. Pivnichny J.V. et al., J. Agric. Food Chem. 1988, 36, 826.
2. 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.