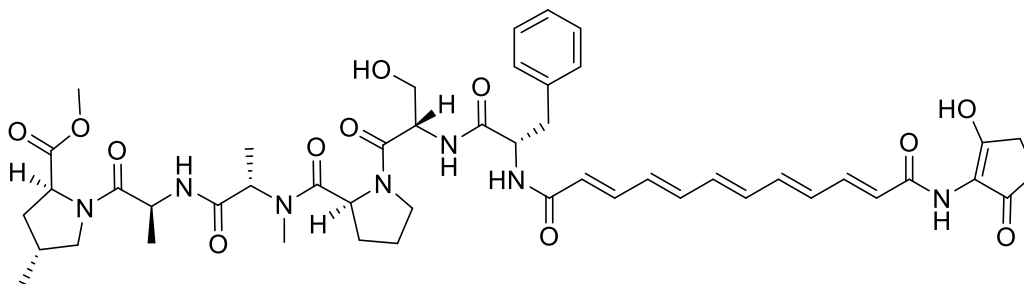


*apo*-Enopectin methyl ester

Code No.: **BIA-E2287**

Pack sizes: **0.25 mg, 1 mg**



Synonyms :

### Specifications

CAS #	: <b>NA</b>
Molecular Formula	: <b>C<sub>48</sub>H<sub>61</sub>N<sub>7</sub>O<sub>12</sub></b>
Molecular Weight	: <b>928.1</b>
Source	: <b><i>Streptomyces</i> sp.</b>
Appearance	: <b>Yellow solid</b>
Purity	: <b>&gt;95% by HPLC</b>
Long Term Storage	: <b>-20°C</b>
Solubility	: <b>Soluble in methanol or DMSO</b>

### Application Notes

*apo*-Enopectin methyl ester is the ring-opened derivative of enopectin. The activity of *apo*-enopectin methyl ester is little known, however its parent, enopectin A, is active against bacteriophage has potent antibacterial activity against Gram positive and Gram negative bacteria, including MRSA. Enopectin A is the most non-polar of the acyldepsipeptide (ADEP) antibiotics which include the recently rediscovered compounds, A54556 A and B, that act by activating and disregulating Clp-family proteins.

### References

1. Diversity oriented synthesis of enopectins and their use as antibacterials. Sello J.K. PCT Int. Appl. 2012, WO 2012135615 A2 20121004.
2. Enopectin A, a novel depsipeptide antibiotic with anti-bacteriophage activity. Osada H. et al., J. Antibiot. 1991, 44, 1436.
3. Structures of ClpP in complex with acyldepsipeptide antibiotics reveal its activation mechanism. Lee B-G. et al., Nature Struct Mol Biol. 2010, 17, 471.
4. Medicinal chemistry optimization of acyldepsipeptides of the enopectin class antibiotics. Hinzen B. et al. Chem Med Chem. 2006, 1, 689.