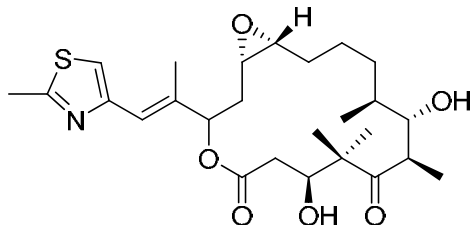


## Epothilone A

Code: **BIA-E1254**

Pack sizes: **0.1 mg, 0.5 mg**



Synonyms : **EpoA**

### Specifications

CAS # : **152044-53-6**  
Molecular Formula : **C<sub>26</sub>H<sub>39</sub>NO<sub>6</sub>S**  
Molecular Weight : **493.7**  
Source : ***Sorangium cellulosum***  
Appearance : **White to off white powder**  
Purity : **> 98% by HPLC**  
Storage : **-20°C**  
Solubility : **Soluble in ethanol, methanol, DMF or DMSO. Poor water solubility.**

### Application Notes

Epothilone A is a microtubule inhibitor isolated from the myxobacteria, *Sorangium cellulosum*. Epothilone A acts by stabilising microtubule formation at the taxol binding site and causes cell cycle arrest at the G2/M transition, leading to cytotoxicity. Epothilone A is under investigation as an antitumor agent.

### References

1. Epothilons A and B: Antifungal and cytotoxic compounds from *Sorangium cellulosum* (myxobacteria) production, physico-chemical and biological properties. Gerth K. et al. J. Antibiot. (Tokyo) 1996, 49, 560.
2. Epothilones, a new class of microtubule-stabilizing agents with a taxol-like mechanism of action. Bollag D. M. et al. Cancer Res. 1995, 55, 2325.