

<b>Product Name:</b>	Epothilone A
<b>Product Number:</b>	E046
<b>CAS Number:</b>	152044-53-6
<b>Molecular Formula:</b>	$C_{26}H_{39}NO_6S$
<b>Molecular Weight:</b>	493.7
<b>Appearance:</b>	White to off white powder
<b>Storage Conditions:</b>	-20°C
<b>Description:</b>	<p>Epothilone A is a microtubule inhibitor isolated from the myxobacteria, <i>Sorangium cellulosum</i>. Epothilone A has been investigated in clinical trials as an antitumor agent.</p> <p>Epothilone A is soluble in ethanol, methanol, DMF or DMSO. Poor water solubility.</p>
<b>Mechanism of Action:</b>	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.
<b>References:</b>	<p>Epothilons A and B: Antifungal and cytotoxic compounds from <i>Sorangium cellulosum</i> (myxobacteria) production, physico-chemical and biological properties. Gerth K. et al. J. Antibiot. (Tokyo) 1996, 49, 560.</p> <p>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.</p>