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## Docetaxel

1 mg

**For Research Use Only. Not for Use in Diagnostic Procedures.**

<b>Background</b>	Docetaxel belongs to the taxane family of antitumor and antileukemic agents (1). A microtubule-stabilizing agent, docetaxel acts as an inhibitor of cellular functions that require microtubule dynamics including cell division, and is now in use as a treatment for breast, prostate and lung cancer (2).
<b>Molecular Formula</b>	C <sub>43</sub> H <sub>53</sub> NO <sub>14</sub>
<b>Molecular Weight</b>	807.88 g/mol
<b>Purity</b>	>99%
<b>CAS</b>	114977-28-5
<b>Solubility</b>	Soluble in DMSO at 200mg/ml and EtOH at 100mg/ml.
<b>Storage</b>	Store lyophilized or in solution at -20°C, desiccated. In lyophilized form, the chemical is stable for 24 months. Once in solution, use within 3 months to prevent loss of potency. Aliquot to avoid multiple freeze/thaw cycles.
<b>Directions for Use</b>	Docetaxel is supplied as 1 mg powder. Store at or below -20°C. Before use, dissolve powder in 1 ml DMSO to make a 1 mg/ml stock solution. The suggested working concentration is 100 ng/ml in tissue culture medium. Treat cells for 4-24 hours. Store solution at -20°C.
<b>Background References</b>	<ol style="list-style-type: none"> <li>1. Abal, M. et al. (2003) <i>Curr Cancer Drug Targets</i> 3, 193-203.</li> <li>2. Crown, J. and O'Leary, M. (2000) <i>Lancet</i> 355, 1176-8.</li> </ol>

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