


#9886 Store at -20°C	Docetaxel	 Cell Signaling TECHNOLOGY®
	1 mg	Orders: 877-616-CELL (2355) orders@cellsignal.com
		Support: 877-678-TECH (8324)
		Web: info@cellsignal.com cellsignal.com
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For Research Use Only. Not for Use in Diagnostic Procedures.

Background	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).
Molecular Formula	C ₄₃ H ₅₃ NO ₁₄
Molecular Weight	807.88 g/mol
Purity	>99%
CAS	114977-28-5
Solubility	Soluble in DMSO at 200mg/ml and EtOH at 100mg/ml.
Storage	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.
Directions for Use:	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.
Background References	1. Abal, M. et al. (2003) <i>Curr Cancer Drug Targets</i> 3, 193-203. 2. Crown, J. and O'Leary, M. (2000) <i>Lancet</i> 355, 1176-8.

Cross-Reactivity Key H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected

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