Paclitaxel		T E C	I Signaling
Store at		Orders:	877-616-CELL (2355) orders@cellsignal.com
1 mg		Support:	877-678-TECH (8324)
		Web:	info@cellsignal.com cellsignal.com
#	3 Trask Lane	e   Danvers   Mass	achusetts   01923   USA
For Research Use Only. Not for	Jse in Diagnostic Procedures.		
Background	Paclitaxel belongs to the taxane family of antitumor and antileukemic and promoting the assembly of microtubules, paclitaxel prevents mic normal cell division (1-3). The microtubule dysfunction induced by pa and sometimes apoptosis. The $IC_{50}$ of paclitaxel-induced mitotic block	crotubual depolym aclitaxel results in	erization and blocks

Molecular Formula	$C_{47}H_{51}NO_{14}$
Molecular Weight	853.9 g/mol
Purity	>99.5%
CAS	33069-62-6
Solubility	Soluble in DMSO at 25mg/ml or EtOH at 20mg/ml.
Storage	Store lyophilized or in solution at -20°C, desiccated. Protect from light. 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:	Paclitaxel is supplied as 1 mg powder. Store at or below -20°C. Before use, dissolve powder in 1.15 ml DMSO to make a 1 mM paclitaxel stock solution. For working concentrations of 100 nM-1000 nM, dilute DMSO stock 1:10,000 to 1:1000. Treat cells with the desired concentration for 6-48 hours.
Background References	<ol> <li>Rowinsky, E.K. et al. (1990) J. Natl. Cancer Inst. 82, 1247-1259.</li> <li>Jordan, A. et al. (1998) Med. Res. Rev. 18, 259-296.</li> <li>Abal, M. et al. (2003) Curr. Cancer Drug Targets 3, 193-203.</li> <li>Long, B.H. and Fairchild, C.R. (1994) Cancer Res. 54, 4355-4361.</li> </ol>
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
Cross-Reactivity Key Trademarks and Patents	X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse
Trademarks and	<ul> <li>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</li> <li>Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more</li> </ul>

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