

#9052 Store at -20C	Dasatinib	
	5 mg	Orders: 877-616-CELL (2355) orders@cellsignal.com Support: 877-678-TECH (8324) Web: info@cellsignal.com cellsignal.com
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Background	Dasatinib is a small molecule inhibitor of both the Src and Bcr-Abl tyrosine kinases, with IC ₅₀ values of 0.55 and 3.0 nM for the isolated kinases, respectively (1). Imatinib and dasatinib have similar inhibitory mechanisms, but dasatinib displays greater potency in imatinib-resistant cell lines and greater inhibitory effect on platelet derived growth factor (PDGF) (2,3).
Molecular Formula	C ₂₂ H ₂₆ ClN ₇ O ₂ S
Molecular Weight	488 g/mol
Purity	>99%
CAS	302962-49-8
Solubility	Soluble in DMSO at 200mg/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	Dasatinib is supplied as a lyophilized powder. For a 5 mM stock, reconstitute the 5 mg in 2.05 mL DMSO. Working concentrations and length of treatments vary depending on the desired effect, but it is typically used at 50-500 nM for 2-6 hours. Soluble in DMSO at 200 mg/mL; very poorly soluble in ethanol and water with maximum solubility in water estimated to be about 10 µM.
Background References	<ol style="list-style-type: none"> 1. Lombardo, L.J. et al. (2004) <i>J Med Chem</i> 47, 6658-61. 2. Copland, M. et al. (2006) <i>Blood</i> 107, 4532-9. 3. Chen, Z. et al. (2006) <i>Mol Pharmacol</i> 69, 1527-33.

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