Store at -20C

9052

5 mg

Dasatinib



Orders: 877-616-CELL (2355)

orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Background Dasatinib is a small molecule inhibitor of both the Src and Bcr-Abl tyrosine kinases, with IC₅₀ 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 FormulaC22H26CIN7O2SMolecular Weight488 g/mol

Purity >99%

CAS 302962-49-8

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 UseDasatinib 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 1. Lombardo, L.J. et al. (2004) J Med Chem 47, 6658-61.

2. Copland, M. et al. (2006) *Blood* 107, 4532-9.

3. Chen, Z. et al. (2006) Mol Pharmacol 69, 1527-33.

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