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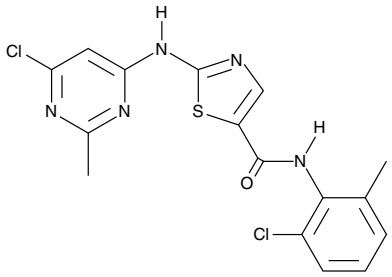
Product Information

CAY10697

Item No. 17806

CAS Registry No.: 302964-08-5
Formal Name: N-(2-chloro-6-methylphenyl)-2-[(6-chloro-2-methyl-4-pyrimidinyl)amino]-5-thiazolecarboxamide
MF: $C_{16}H_{13}Cl_2N_5OS$
FW: 394.3
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ_{max}: 319 nm



Laboratory Procedures

For long term storage, we suggest that CAY10697 be stored as supplied at -20°C. It should be stable for at least two years.

CAY10697 is supplied as a crystalline solid. A stock solution may be made by dissolving the CAY10697 in the solvent of choice. CAY10697 is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of CAY10697 in these solvents is approximately 2 and 5 mg/ml, respectively.

CAY10697 is sparingly soluble in aqueous solutions. To enhance aqueous solubility, dilute the organic solvent solution into aqueous buffers or isotonic saline. If performing biological experiments, ensure the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

Dasatinib (Item No. 11498) is a potent inhibitor of receptor and non-receptor tyrosine kinases, including some drug resistant mutant forms.[1-4] It has potential therapeutic value in diseases that are characterized by elevated levels of these kinases, including some forms of cancer and fibrotic disease.[1,2,5,6] CAY10697 is an intermediate in the synthesis of dasatinib.[7]

References

1. Lombardo, L.J., Lee, F.Y., Chen, P., *et al.* Discovery of N-(2-chloro-6-methyl-phenyl)-2-(6-(4-(2-hydroxyethyl)-piperazin-1-yl)-2-methylpyrimidin-4-ylamino)thiazole-5-carboxamide (BMS-354825),a dual Src/Abl kinase inhibitor with potent antitumor activity in preclinical assays. *J. Med. Chem.* **47(27)**, 6658-6661 (2004).
2. Das, J., Chen, P., Norris, D., *et al.* 2-aminothiazole as a novel kinase inhibitor template. Structure-activity relationship studies toward the discovery of N-(2-chloro-6-methylphenyl)-2-[[6-[4-(2-hydroxyethyl)-1-piperazinyl)]-2-methyl-4-pyrimidinyl]amino)]-1,3-thiazole-5-carboxamide (Dasatinib, BMS-354825) as a potent pan-Src kinase inhibitor. *J. Med. Chem.* **49(23)**, 6819-6823 (2006).
3. Davis, M.I., Hunt, J.P., Herrgard, S., *et al.* Comprehensive analysis of kinase inhibitor selectivity. *Nat. Biotechnol.* **29(11)**, 1046-1051 (2011).
4. Carter, T.A., Wodicka, L.M., Shah, N.P., *et al.* Inhibition of drug-resistant mutants of ABL, KIT, and EGF receptor kinases. *Proc. Natl. Acad. Sci. USA* **102(31)**, 11011-11016 (2005).
5. Distler, J.H.W. and Distler, O. Intracellular tyrosine kinases as novel targets for anti-fibrotic therapy in systemic sclerosis. *Rheumatology* **47**, 10-11 (2008).
6. McFarland, K.L. and Wetzstein, G.A. Chronic myeloid leukemia therapy: Focus on second-generation tyrosine kinase inhibitors. *Cancer Control* **16(2)**, 132-140 (2009).
7. Deadman, B.J., Hopkin, M.D., Baxendale, I.R., *et al.* The synthesis of Bcr-Abl inhibiting anticancer pharmaceutical agents imatinib, nilotinib and dasatinib. *Org. Biomol. Chem.* **11**, 1766-1800 (2013).

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