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Farnesyltransferase/Geranylgeranyltransferase Inhibitor L-778,123

National Cancer Institute

Source

National Cancer Institute. *Farnesyltransferase/Geranylgeranyltransferase Inhibitor L-778,123*. NCI Thesaurus. Code C1840.

A benzonitrile derivative capable of inhibiting some prenyltransferases. L-778,123 is a dual inhibitor of farnesyl:protein and geranylgeranyl:protein transferases; both enzymes catalyze prenylation of oncoprotein KRAS, a prerequisite step in activation of KRAS in signal transduction pathway of apoptosis. Although this agent was developed in part as an anti-KRAS agent, L-778,123 failed in a Phase I trial to inhibit KRAS, which is associated with many types of solid tumors.