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Carboxyamidotriazole Orotate

National Cancer Institute

Source

National Cancer Institute. *Carboxyamidotriazole Orotate*. NCI Thesaurus. Code C91090.

The orotate salt form of carboxyamidotriazole (CAI), an orally bioavailable small molecule with potential antiangiogenic and antiproliferative activities. Carboxyamidotriazole binds to and inhibits non-voltage-operated calcium channels, blocking both Ca^{2+} influx into cells and Ca^{2+} release from intracellular stores, resulting in the disruption of calcium channel-mediated signal transduction. CAI inhibits PI3 activity and vascular endothelial growth factor (VEGF) signaling. This may inhibit endothelial proliferation, tumor cell growth, invasion and metastasis.