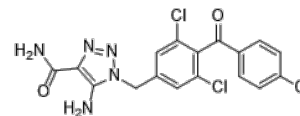


Product Name : Carboxyamidotriazole
Cat. No. : PC-27439
CAS No. : 99519-84-3
Molecular Formula : C₁₇H₁₂Cl₃N₅O₂
Molecular Weight : 424.67
Target : Calcium Channel
Solubility : 10 mM in DMSO



Biological Activity

Carboxyamidotriazole (L-651582, CAI) is a mitochondrial complex I inhibitor, inhibits oxidative phosphorylation in cancer cells, also is a non-voltage-dependent calcium channel blocker, inhibits tumor cell proliferation, metastasis, and angiogenesis.

Carboxyamidotriazole inhibits oxidative phosphorylation in cancer cells and exerts synergistic anti-cancer effect with glycolysis inhibition.

Carboxyamidotriazole has an anti-proliferative effect on ovarian carcinoma cell lines and strongly down-regulated Mcl-1 expression.

Carboxyamidotriazole inhibits store-operated calcium entry (SOCE) and Mcl-1 translation through mTORC1 deactivation. Carboxyamidotriazole sensitizes ovarian carcinoma cells to anti-Bcl-xL strategies as their combination elicited massive apoptosis.

References

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Bonnefond ML, et al. Oncotarget. 2018 Sep 21;9(74):33896-33911.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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