

Technology: [Use of PKC-iota inhibitors for the treatment of breast cancer](#)

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Abstract

The subject invention pertains to uses of PKC-iota inhibitors for treatment of breast cancer. In one embodiment, the subject invention provides novel uses of 1H-imidazole-4-carboxamide, 5-amino-1-[2,3-dihydroxy-4-[(phosphonoxy)methyl]cyclopentyl]-, [1R-(1.alpha., 2.beta., 3.beta., 4.alpha.)] (ICA-1) and related compounds for treatment of breast cancer. The compounds of the subject invention have potent anti-proliferative effects against human breast cancer cells. The compounds of the subject invention also inhibit the phosphorylation of IKK-.alpha./IKK-.beta., induce chromatin condensation, and/or induce DNA fragmentation in cancer cells.