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8-Chloroadenosine

National Cancer Institute

Source

National Cancer Institute. *8-Chloroadenosine*. NCI Thesaurus. Code C124047.

An antimetabolite and a chlorine derivative of the purine nucleoside adenosine, with potential antineoplastic activity. Upon administration, 8-chloro-adenosine is phosphorylated to form 8-chloro-adenosine triphosphate (8-chloro-ATP), which functions as a ribonucleoside analogue and competes with ATP during transcription. Therefore, this agent causes RNA synthesis inhibition, inhibits cellular proliferation, and induces apoptosis.