



LKT Laboratories, Inc.

Cordycepin

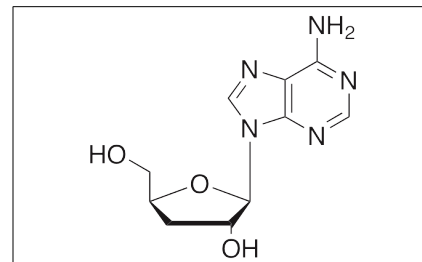
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Product Information

Product ID C5968
CAS No. 73-03-0
Chemical Name 3'-deoxyadenosine

Synonym 9-Cordyceposidoadenine

Formula $C_{10}H_{13}N_5O_3$
Formula Wt. 251.24
Melting Point
Purity $\geq 99\%$
Solubility Water



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
C5968	10 mg	\$112.20
C5968	25 mg	\$224.60
C5968	100 mg	\$561.40

Store Temp Ambient
Ship Temp Ambient

Description Cordycepin is originally found in a variety of species of the fungus *Cordyceps* and displays anticancer, neuromodulatory, anti-inflammatory, anti-parasitic, and antiviral activities. Cordycepin induces double-stranded DNA breaks in cancer cells with incorporated into nucleic acid chains as it is a 3-deoxy analog of adenosine. Additionally, cordycepin increases generation of reactive oxygen species (ROS), increases caspase activity and PARP cleavage, and activates AMPK, inducing caspase-mediated apoptosis in cells. Cordycepin decreases the amplitude of excitatory presynaptic membrane potentials and indirectly inhibits AMPA receptor- and NMDA receptor-mediated responses through inhibition of presynaptic excitatory neurotransmitter release. In vitro, cordycepin decreases production of NO, activation of NF- κ B, and expression of iNOS, COX-2, and TNF- α . This compound displays antimicrobial activity against *Leishmania* and also terminates RNA chains in cells infected with picornavirus.

References Yao LH, Huang JN, Li CH, et al. Cordycepin suppresses excitatory synaptic transmission in rat hippocampal slices via a presynaptic mechanism. *CNS Neurosci Ther.* 2013 Apr;19(4):216-21. PMID: 23419191.

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Caution: This product is intended for laboratory and research use only. It is not for human or drug use.