Cordycepin

Product Number  C 3394
Storage Temperature  -0 °C

Product Description
Molecular Formula: C_{10}H_{13}N_{5}O_{3}
Molecular Weight: 251.2
CAS Number: 73-03-0
Melting Point: 225-226 °C
\( \lambda_{\text{max}} \): 260 nm
Extinction Coefficient: \( E_{\text{mm}} = 14.6 \) (ethanol)\(^1\)

Cordycepin is an adenosine analog which was originally isolated from cultures of *Cordycepin militaris*, and was the first reported nucleoside antibiotic.\(^2\)
Cordycepin inhibits the poly-adenylation of Hn-RNA in HeLa cells at a concentration of 50 \( \mu \)g/ml. It also inhibits 45S rRNA synthesis in eukaryote cells. The inhibitory action of cordycepin is reversed by adenosine, but not by 2'-deoxyadenosine.\(^1\)
Cordycepin and Cordycepin triphosphate have been used extensively in the study of messenger RNA transcription.\(^3,4\)

Precautions and Disclaimer
For Laboratory Use Only. Not for drug, household or other uses.

Preparation Instructions
This product is soluble in water (1 mg/ml). The solubility is routinely tested at 20 mg/ml (1 M NH\(_2\)OH), forming a clear, colorless solution.

References
2. The Merck Index, 12th ed, Entry# 2593.

JLH/RXR  7/03