

**Product Name** : Cordycepin

**Synonyms** : 3'-Deoxyadenosine; NSC 63984; NSC 401022

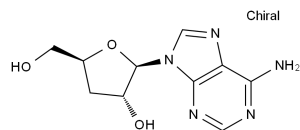
**Cat No.** : M15794

**CAS Number** : 73-03-0

**Molecular Formula** : C<sub>10</sub>H<sub>13</sub>N<sub>5</sub>O<sub>3</sub>

**Formula Weight** : 251.24

**Chemical Name** : (2R,3R,5S)-2-(6-amino-9H-purin-9-yl)-5-(hydroxymethyl)tetrahydrofuran-3-ol



**Description** : Cordycepin is a potent inhibitor of IL-1 $\beta$ -induced chemokine production and MMP expression and strongly blocks the p38/JNK/AP-1 signalling pathway in RASFs. The effect of Cordycepin on cellular toxicity of RASFs is assessed using MTT assay. Treatment of RASFs with Cordycepin (50  $\mu$ M or 100  $\mu$ M) for 24 h does not cause any significant change in cell viability. However, cell viability is slightly decreased when cells are incubated with 100  $\mu$ M Cordycepin for 48 h.

**Pathway** : Metabolic Enzyme/Protease

**Target** : MMP

**Receptor** : TNF- $\alpha$

**Solubility** : DMSO: Soluble

**SMILES** : O[C@H]1[C@H](N2C=NC3=C(N)N=CN=C23)O[C@H](CO)C1

**Storage** : (-20°C)

**Stability** :  $\geq 2$  years

**Reference** :

1. Noh EM, et al. Cordycepin inhibits IL-1 $\beta$ -induced MMP-1 and MMP-3 expression in rheumatoid arthritis synovial fibroblasts. Rheumatology (Oxford). 2009 Jan;48(1):45-8.