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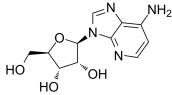
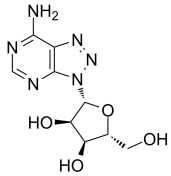
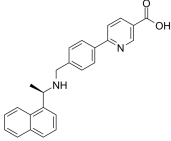
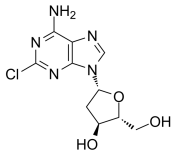
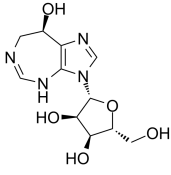
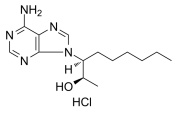
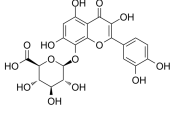
Inhibitors, Screening Libraries, Proteins

Adenosine Deaminase

Adenosine deaminase (ADA) is an enzyme of the purine metabolism which catalyzes the irreversible deamination of adenosine and deoxyadenosine to inosine and deoxyinosine, respectively. This ubiquitous enzyme has been found in a wide variety of microorganisms, plants, and invertebrates. In addition, it is present in all mammalian cells that play a central role in the differentiation and maturation of the lymphoid system. Two distinct adenosine deaminases, ADA1 and ADA2, are found in humans. ADA1 has an important role in lymphocyte function and inherited mutations in ADA1 result in severe combined immunodeficiency. ADA2 belongs to the novel family of adenosine deaminase growth factors (ADGFs), which play an important role in tissue development.

ADA plays a critical role in various diseases. Interestingly, Both genetic ADA deficiency and ADA overexpression may cause diseases. Generally appreciated is the notion that inherited genetic ADA deficiency represents the main cause of severe combined immunodeficiency disease (SCID), accounting for about 15% of all SCID cases. Conversely, overexpression of ADA may be closely related to hemolytic anemia, liver cancer, breast cancer, etc.

Adenosine Deaminase Inhibitors

<p>1-Deazaadenosine</p> <p>Cat. No.: HY-103159</p> <p>1-Deazaadenosine is a potent Adenosine deaminase (ADA) inhibitor with a K_i value of 0.66 μM. 1-Deazaadenosine exhibits anti-cancer activities in vitro and has the potential to be a chemotherapy agent for lymphoproliferative disorders.</p> <p>Purity: >98% Clinical Data: No Development Reported Size: 5 mg</p> 	<p>8-Azaadenosine</p> <p>Cat. No.: HY-115686</p> <p>8-Azaadenosine is a potent ADAR1 inhibitor and an A-to-I editing inhibitor. 8-Azaadenosine blocks RNA editing and inhibits proliferation, 3D growth, invasion, and migration in thyroid cancer cells.</p> <p>Purity: 99.94% Clinical Data: No Development Reported Size: 10 mM \times 1 mL, 5 mg, 10 mg</p> 
<p>Adenosine deaminase</p> <p>Cat. No.: HY-114175</p> <p>Adenosine deaminase is an enzyme that catalyzes the irreversible deamination of adenosine and 2'-deoxyadenosine to inosine and 2'-deoxyinosine, respectively.</p> <p>Purity: >98% Clinical Data: No Development Reported Size: 1 mg, 5 mg</p> <p>Adenosine deaminase</p>	<p>AMPD2 inhibitor 1</p> <p>Cat. No.: HY-103673</p> <p>AMPD2 inhibitor 1 is an adenosine monophosphate deaminase 2 (AMPD2) inhibitor, used in the research of sugar craving, salt craving, umami craving, and addictions including drug, tobacco, nicotine and alcohol addictions.</p> <p>Purity: >98% Clinical Data: No Development Reported Size: 5 mg, 10 mg, 25 mg, 50 mg, 100 mg</p> 
<p>Cladribine (2-Chloro-2'-deoxyadenosine; CldAdo; 2CdA)</p> <p>Cat. No.: HY-13599</p> <p>Cladribine (2-Chloro-2'-deoxyadenosine), a purine nucleoside analog, is an orally active adenosine deaminase inhibitor. Cladribine functions as an inhibitor of DNA synthesis to block the repair of the damaged DNA. Cladribine can inhibit DNA methylation.</p> <p>Purity: 99.97% Clinical Data: Launched Size: 10 mM \times 1 mL, 10 mg, 50 mg, 100 mg</p> 	<p>Coformycin</p> <p>Cat. No.: HY-117260</p> <p>Coformycin, a nucleoside antibiotic, is a potent inhibitor of adenosine deaminase (ADA) from <i>Streptomyces</i> species. Coformycin possesses anti-tumor and anti-bacterial activity.</p> <p>Purity: >98% Clinical Data: No Development Reported Size: 1 mg, 5 mg</p> 
<p>EHNA hydrochloride</p> <p>Cat. No.: HY-103160A</p> <p>EHNA hydrochloride is a potent and selective dual inhibitor of cyclic nucleotide phosphodiesterase 2 (PDE2) ($IC_{50}=4 \mu$M) and adenosine deaminase (ADA).</p> <p>Purity: 99.61% Clinical Data: No Development Reported Size: 10 mM \times 1 mL, 2 mg, 5 mg</p> <p>Relative stereochemistry</p> 	<p>Hibifolin</p> <p>Cat. No.: HY-N7368</p> <p>Hibifolin, a flavonol glycoside, is a potential inhibitor of adenosine deaminase (ADA), with a K_i of 49.92 μM. Hibifolin protects neurons against beta-amyloid-induced neurotoxicity.</p> <p>Purity: 99.06% Clinical Data: No Development Reported Size: 5 mg</p> 
<p>Pentostatin (CI-825; Deoxycofornycin)</p> <p>Cat. No.: HY-A0006</p> <p>Pentostatin (CI-825; Deoxycofornycin) is an irreversible inhibitor of adenosine deaminase with K_i of 2.5 pM.</p> <p>Purity: 99.93% Clinical Data: Launched Size: 10 mM \times 1 mL, 10 mg, 50 mg</p> 