Web: www.taiclone.com
Tel: +886-2-2735-9682
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Cytidine

Catalog No: tcsc1989

Available Sizes

Size: 1g

Size: 5g

Specifications

CAS No:
65-46-3

Formula:
$C_9H_{13}N_3O_5$

Pathway:
Cell Cycle/DNA Damage;Metabolic Enzyme/Protease

Target:
Nucleoside Antimetabolite/Analog;Endogenous Metabolite

Purity / Grade:
>98%

Solubility:
10 mM in DMSO

Alternative Names:
Cytosine β-D-riboside;Cytosine-1-β-D-ribofuranoside

Observed Molecular Weight:
243.22

Product Description

Cytidine is a nucleoside molecule that is formed when cytosine is attached to a ribose ring, cytidine is a component of RNA.

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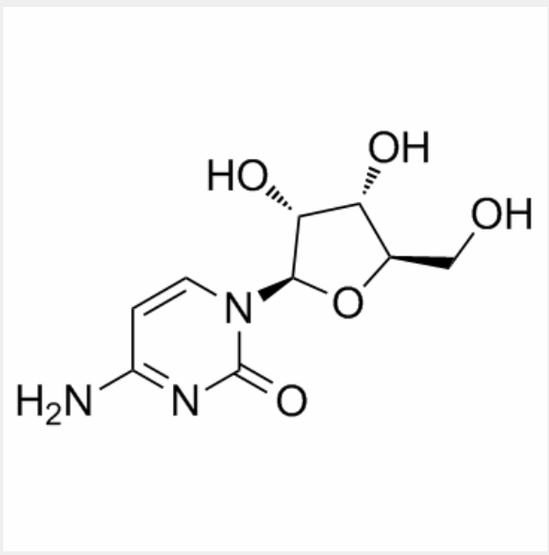
Target: Nucleoside antimetabolite/analog

Cytidine is a nucleoside molecule that is formed when cytosine is attached to a ribose ring (also known as a ribofuranose) via a β-N1-glycosidic bond. Cytidine is a component of RNA. If cytosine is attached to a deoxyribose ring, it is known as a deoxycytidine. Dietary sources of cytidine include foods with high RNA (ribonucleic acid) content, such as organ meats, Brewer\'s yeast, as well as pyrimidine-rich foods such as beer. During digestion, RNA-rich foods are broken-down into ribosyl pyrimidines (cytidine and uridine), which are absorbed intact. In humans, dietary cytidine is converted into uridine, which is probably the compound behind cytidine\'s metabolic effects.

There are a variety of cytidine analogs with potentially useful pharmacology. For example, KP-1461 is an anti-HIV agent that works as a viral mutagen, and zebularine exists in E. coli and is being examined for chemotherapy. Low doses of azacitidine and its analog decitabine have shown results against cancer through epigenetic demethylation.



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