

Product Name:	5-Azacytidine
Product Number:	A095
CAS Number:	320-67-2
Molecular Formula:	$C_8H_{12}N_4O_5$
Molecular Weight:	244.205
Appearance:	White or off-white solid
Storage Conditions:	-20°C
Description:	5-azacytidine is a nucleoside analog of cytidine and is used to treat myelodysplastic syndrome (MDS).
Mechanism of Action:	The mechanism of action of 5-azacytidine is currently debated; however, two likely mechanisms have been proposed. Because of its similarity to cytidine, 5-azacytidine is believed to be incorporated into DNA and RNA of bone marrow at high doses. At lower doses, 5-azacytidine is thought to inhibit DNA methyltransferase activity leading to a decrease in DNA methylation.
References:	Christman, Judith K. "5-Azacytidine and 5-aza-2'-deoxycytidine as Inhibitors of DNA Methylation: Mechanistic Studies and Their Implications for Cancer Therapy." <i>Oncogene</i> 21.35 (2002): 5483-495. Web.