Revision	3
11011	-

5-Azacytidine	
	Orders: 877-616-CELL (2355) orders@cellsignal.com
9 50 mg	Support: 877-678-TECH (8324)
50 mg	Web: info@cellsignal.com cellsignal.com
50 #	3 Trask Lane   Danvers   Massachusetts   01923   USA
For Research Use Only. Not for Use in Diagnostic Procedures.	

5-Azacytidine is a nucleoside analogue of cytidine and a DNA methyltransferase inhibitor. 5-Azacytidine is incorporated into DNA to covalently trap DNA methyltransferases, which contributes to reversing DNA methylation (1). It also functions in reducing DNA hypermethylation in certain diseases, including myelodysplastic syndrome (MDS) (2).
C <sub>8</sub> H <sub>12</sub> N <sub>4</sub> O <sub>5</sub>
244.2 g/mol
>98%
320-67-2
Soluble in DMSO at 25 mg/mL or water at 12 mg/mL.
Store lyophilized at -20°C, desiccated. In lyophilized form, the chemical is stable for 24 months. Once in solution, store at -20°C and use within 1 month to prevent loss of potency. <i>Aliquot to avoid multiple freeze/thaw cycles.</i>
5-Azacytidine is supplied as a lyophilized powder. For a 15 mM stock, reconstitute 5 mg of powder in 1.37 mL of DMSO. Working concentrations and length of treatment can vary depending on the desired effect.
Wear personal protective equipment. Do not empty product into drains. Do not handle until all safety precautions have been read and understood.
<b>Safety Information:</b> 5-Azacytidine has been classified by the International Agency for Research on Cancer (IARC) as a probable human carcinogen (Group 2A). It is suspected of causing genetic defects. It may cause adverse reproductive effects - such as birth defect, miscarriages, or infertility. Avoid contact during pregnancy and while nursing. If exposed or concerned, get medical advice. See Safety Data Sheet (SDS).
1. Brueckner, B. et al. (2005) <i>Cancer Res</i> 65, 6305-11. 2. Silverman, L.R. et al. (2002) <i>J Clin Oncol</i> 20, 2429-40.
Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.
All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.
Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.
Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any

commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.