



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# Data Sheet

Research Use Only

## Compound Name

5-Azacytidine

## Catalog Number

SM07

## Alternative Names

5-AzaC, Ladakamycin, NSC 103-627, NSC 102816, U 18496, WR 183027, Zcyd, 4-Amino-1-[(2R,3R,4S,5R)-3,4-dihydroxy-5-(hydroxymethyl)oxolan-2-yl]-1,3,5-triazin-2-one

## Activity

5-Azacytidine is an epigenetic modifier, a potent growth inhibitor and a cytotoxic agent.

## Effect

5-Azacytidine acts as a demethylating agent by inhibiting DNA methyltransferase (DNMT), forming covalent adducts with cellular DNMT1 depleting enzyme activity. This small molecule enhances differentiation to cardiomyocytes from human embryonic stem cells. 5-Azacytidine also increases reprogramming efficiency of mouse fibroblasts to pluripotent stem cells.

## Purity

>98%

## CAS

320-67-2

## Formula

$C_8H_{12}N_4O_5$

## Molecular Weight

244.2

## Solubility

DMSO

## Stability

Stable at -20°C. Keep away from direct sunlight.

## References

1. Kusaba, H., et al. 1999. Eur J Biochem. 262(3): 924-932. PMID: 10411657
2. Broday, L., et al. 1999. Mol Cell Biol. 19(4): 3198-3204. PMID: 10082586
3. Yoon, BS., et al. 2006. Differentiation. 74(4): 149-159. PMID: 16683985
4. Mikkelsen, TS., et al. 2008. Nature. 454(7200): 49-55. PMID: 18509334