5-Aza-2'-deoxycytidine

Product Number A3656
Storage at Room Temperature

Product Description
Molecular Formula: C₈H₁₂N₄O₄
Molecular Weight: 228.2
CAS Number: 2353-33-5
Melting Point: 177-182 °C; 191-193 °C
λₘₐₓ: 239 nm
Extinction Coefficient: Eᵦₘ = 8.2 (239 nm and pH 4.0)

5-aza-2'-deoxycytidine causes DNA demethylation or hemi-demethylation. DNA demethylation can regulate gene expression in cis by relaxing chromatin structure. This is detectable as an increased nuclease sensitivity. This remodeling of chromatin structure allows transcription factors to bind to the promoter regions, assembly of the transcription complex, and gene expression.

Precautions and Disclaimer
For Laboratory Use Only. Not for drug, household or other uses.

Preparation Instructions
This product is typically dissolved at 50 mg/ml in 50% acetic acid. This product is also soluble at 50 mg/ml in DMSO or 0.25 mg/ml in water.

Storage/Stability
Aqueous solutions of this product appear to be very unstable, probably by analogy to A 2385, aza-cytidine. We suggest preparing solution fresh for each use and storing solutions on ice until use within a few hours.

References