1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( C_5H_5N_5S \)
Batch Molecular Weight: 167.19
Physical Appearance: Pale yellow solid
Solubility: DMSO to 100 mM
Storage: Store at RT

2. ANALYTICAL DATA

HPLC: Shows 100% purity
\(^1H\) NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis: Carbon Hydrogen Nitrogen
Theoretical 35.92 3.01 41.88
Found 36.15 3.06 41.72
Description:
Anticancer and immunosuppressive agent often used to treat immune disorders and leukemia. Displays cytotoxic and antineoplastic properties; disrupts cytosine methylation by DNA methyltransferases after incorporation into DNA. Selectively kills BRCA2-defective tumors in a xenograft model. Also facilitates proteasome-mediated degradation of DNA (cytosine-5)-methyltransferase 1 (DNMT1).

Physical and Chemical Properties:
Batch Molecular Formula: C$_7$H$_7$N$_5$S
Batch Molecular Weight: 167.19
Physical Appearance: Pale yellow solid
Minimum Purity: >99%

Storage: Store at RT

Solubility & Usage Info:
DMSO to 100 mM

Stability and Solubility Advice:
Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:
SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.
SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References: