Zebularine

Catalog No: 14106, 14107
Format: 25 mg, 5 mg

Chemical Properties:
MW = 228.2
C₉H₁₂N₂O₅
CAS 3690-10-6
Physical Properties: White powder
Names: Zebularine, 1H-β-D-ribofuranosyl-2-pyrimidinone; NSC 309132

Pharmacology: DNA methyltransferase inhibitor which binds covalently to methyltransferases (ref 1). Re-activates silenced E-cadherin expression in EBV-harboring Burkitt's lymphoma Akata cells (ref 2). Delays tumor growth and induces apoptosis in a genetically engineered mouse model of breast cancer (ref 3). Potentiates differentiation of mesenchymal stem cells into cardiomyocytes (ref 4). Inhibits cytidine deaminase (Kᵢ ~ 2 µM)(ref 5). Active in vivo.

Solubilization: May be dissolved in DMSO (20 mg/ml); or water (20 mg/ml)

Fluorescent Properties: N/A

Quality Control:
>98% (HPLC); NMR (Conforms)

References:

Storage and Guarantee: Store desiccated as supplied at -20°C for up to 2 years. Store solutions at -20°C for up to 1 month. This product is guaranteed for 6 months from date of arrival.