

Zebularine, DNA methylation inhibitor

Catalog	Unit
TBI2432-5MG	5 mg
TBI2432-25MG	25 mg

Product Details

Formal Name: 1H-β-D-ribofuranosyl-2-pyrimidinone

Alternate Names: NSC 309132

Molecular Formula: C₉H₁₂N₂O₅

Formula Weight: 228.21

CAS Number: 3690-10-6

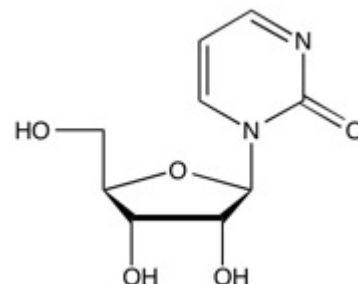
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to 20 mg/ml) or in Water (up to 20 mg/ml).

Storage: -20°C

Stability: ≥ 2 years.



Applications

DNA methylation inhibitor

Functions

Orally active DNA methyltransferase inhibitor. Inhibits tumor cell proliferation (IC₅₀ = 120 μM) and re-activates silenced genes in T24 bladder carcinoma cells. Inhibits cytidine deaminase (K_i ~ 2 μM); induces differentiation of mesenchymal stem cells into cardiomyocytes.

Application Procedures

First dissolved in DMSO (up to 20 mg/ml) or in Water (up to 20 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or distilled water may be stored at -20° for up to 1 month.

For research use only.