



## Product Information

### HMT inhibitor DZNep, Purity $\geq 98\%$

**Cat. No.:** X24-05-ZQ508

**Size:** 1 mg; 2 mg; 5 mg; 10 mg; 25 mg

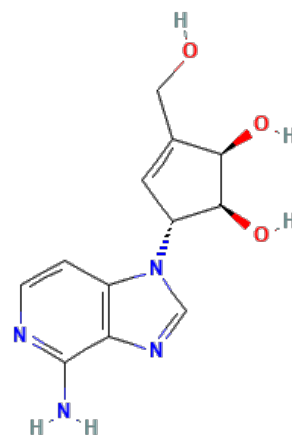
**CAS Number:** 102052-95-9

**Compound CID:** 73087

**Synonym:** 102052-95-9; 3-Deazaneplanocin; NSC 617989; DZNep; Histone

methyltransferase inhibitor

**This product is for research use only and is not intended for diagnostic use.**



#### Product Information

|                          |                                                                                                                                    |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>       | DZNep inhibits the enzymes that add methyl groups to histone proteins, altering chromatin structure and gene expression.           |
| <b>Molecular Weight</b>  | 262.3                                                                                                                              |
| <b>Molecular Formula</b> | C <sub>12</sub> H <sub>14</sub> N <sub>4</sub> O <sub>3</sub>                                                                      |
| <b>IUPAC Name</b>        | (1 <i>S</i> ,2 <i>R</i> ,5 <i>R</i> )-5-(4-aminoimidazo[4,5- <i>c</i> ]pyridin-1-yl)-3-(hydroxymethyl)cyclopent-3-ene-1,2-diol     |
| <b>InChI</b>             | InChI=1S/C12H14N4O3/c13-12-9-7(1-2-14-12)16(5-15-9)8-3-6(4-17)10(18)11(8)19/h1-3,5,8,10-11,17-19H,4H2,(H2,13,14)/t8-,10-,11+/m1/s1 |
| <b>InChI Key</b>         | OMKHWTRUYNAGFG-IEBDPFPHSA-N                                                                                                        |
| <b>Canonical SMILES</b>  | C1=CN=C(C2=C1N(C=N2)C3C=C(C(C3O)O)CO)N                                                                                             |
| <b>Isomeric SMILES</b>   | C1=CN=C(C2=C1N(C=N2)[C@@H]3C=C([C@H]([C@H]3O)O)CO)N                                                                                |
| <b>Form</b>              | Lyophilized powder                                                                                                                 |
| <b>Purity</b>            | $\geq 98\%$                                                                                                                        |
| <b>Identity</b>          | Confirmed by NMR/HPLC/MS.                                                                                                          |
| <b>Stability</b>         | The product is stable for three years when stored at the recommended temperature in lyophilized powder.                            |
| <b>Applications</b>      | DZNep can be used to inhibit EZH2, leading to decreased H3K27 methylation and reactivation of silenced genes.                      |
| <b>Storage</b>           | Store at -20°C.                                                                                                                    |