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## DATASHEET

Nebularine

### Product overview

|                    |                                                                           |
|--------------------|---------------------------------------------------------------------------|
| <b>Name</b>        | Nebularine                                                                |
| <b>Cat No</b>      | HB3992                                                                    |
| <b>Purity</b>      | >98%                                                                      |
| <b>Description</b> | Naturally occurring nucleoside. DNA, RNA and protein synthesis inhibitor. |

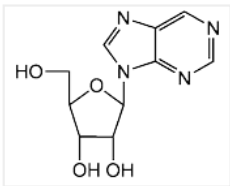
### Biological Data

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Biological description</b> | Nucleoside analog. Cytotoxic. DNA, RNA and protein synthesis inhibitor. Shows anticancer activity. Anti-mycobacterial. Has tuberculostatic activity. Antifungal activity. Antiviral (anti-Herpes). Adenosine deaminase inhibitor. Can be used to analyze structure determinants of DNA that are recognized by DNA repair enzymes, to locate triple helices at G-C sequences or as an universal base, which can bind to all four of the nucleosides of DNA. |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Solubility & Handling

|                             |                                                                                                                               |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage instructions</b> | +4 °C                                                                                                                         |
| <b>Important</b>            | This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use. |

### Chemical Data

|                           |                                                                                     |
|---------------------------|-------------------------------------------------------------------------------------|
| <b>Molecular Weight</b>   | 252.2                                                                               |
| <b>Chemical structure</b> |  |
| <b>CAS Number</b>         | 550-33-4                                                                            |
| <b>PubChem identifier</b> | 0                                                                                   |
| <b>SMILES</b>             | <chem>OC[C@H]1O[C@H]([C@H](O)[C@@H]1O)n2cnc3cncnc23</chem>                          |
| <b>InChiKey</b>           | MRWXACSTFXYYMV-UHFFFAOYSA-N                                                         |
| <b>Appearance</b>         | White to off-white solid                                                            |