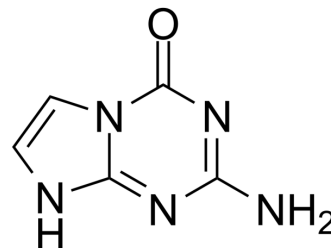


## 5-Aza-7-deazaguanine

|                    |  |       |          |
|--------------------|--|-------|----------|
| Cat. No.:          | HY-111627                                      |       |          |
| CAS No.:           | 67410-64-4                                     |       |          |
| Molecular Formula: | C <sub>5</sub> H <sub>5</sub> N <sub>5</sub> O |       |          |
| Molecular Weight:  | 151.13   |       |          |
| Target:            | Nucleoside Antimetabolite/Analog               |       |          |
| Pathway:           | Cell Cycle/DNA Damage                          |       |          |
| Storage:           | Powder   | -20°C | 3 years  |
|                    |  | 4°C   | 2 years  |
|                    | In solvent                                     | -80°C | 6 months |
|                    |  | -20°C | 1 month  |



### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : 5 mg/mL (33.08 mM; ultrasonic and adjust pH to 9 with NaOH)

| Concentration             | Solvent | Mass      |            |            |
|---------------------------|---------|-----------|------------|------------|
|                           |         | 1 mg      | 5 mg       | 10 mg      |
| Preparing Stock Solutions | 1 mM    | 6.6168 mL | 33.0841 mL | 66.1682 mL |
|                           | 5 mM    | 1.3234 mL | 6.6168 mL  | 13.2336 mL |
|                           | 10 mM   | 0.6617 mL | 3.3084 mL  | 6.6168 mL  |

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

5-Aza-7-deazaguanine is a substrate for wild-type (WT) E. coli purine nucleoside phosphorylase and its Ser90Ala mutant in the synthesis of base-modified nucleosides<sup>[1]</sup>.

#### IC<sub>50</sub> & Target

Purine nucleoside phosphorylase, Nucleoside Antimetabolite/Analog<sup>[1]</sup>

### CUSTOMER VALIDATION

- Theranostics. 2021 Jan 1;11(2):841-860.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

### REFERENCES

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[1]. Fateev IV, et al. Recognition of Artificial Nucleobases by E. coli Purine Nucleoside Phosphorylase versus its Ser90Ala Mutant in the Synthesis of Base-Modified Nucleosides. Chemistry. 2015 Sep 14;21(38):13401-19.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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