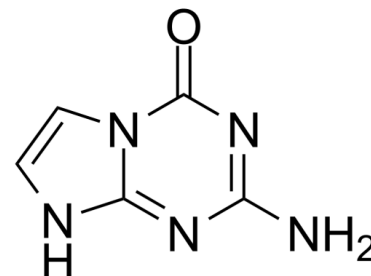


Data Sheet

Product Name:	5-Aza-7-deazaguanine
Cat. No.:	CS-0088871
CAS No.:	67410-64-4
Molecular Formula:	C ₅ H ₅ N ₅ O
Molecular Weight:	151.13
Target:	Nucleoside Antimetabolite/Analog
Pathway:	Cell Cycle/DNA Damage
Solubility:	H ₂ O : 5 mg/mL (33.08 mM; ultrasonic and adjust pH to 9 with NaOH)



BIOLOGICAL ACTIVITY:

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^[1]. IC₅₀ & Target: Purine nucleoside phosphorylase, Nucleoside Antimetabolite/Analog^[1]

References:

[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.

CAIndexNames:

Imidazo[1,2-a]-1,3,5-triazin-4(3H)-one, 2-amino-

SMILES:

O=C1N=C(N)N=C2N1C=CN2

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

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