# Guanine

Cat. No.:	HY-Y1055	
CAS No.:	73-40-5	
Molecular Formula:	C <sub>s</sub> H <sub>s</sub> N <sub>s</sub> O	
Molecular Weight:	151.13	
Target:	DNA/RNA Synthesis; Endogenous Metabolite	
Pathway:	Cell Cycle/DNA Damage; Metabolic Enzyme/Protease	
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)	

## SOLVENT & SOLUBILITY

In Vitro

Preparing Stock Solutions	Solvent	1 mg	5 mg	10 mg
	Concentration	8	08	8
	1 mM	6.6168 mL	33.0841 mL	66.1682 ml
	5 mM	1.3234 mL	6.6168 mL	13.2336 ml
	10 mM			

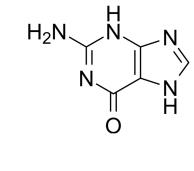
Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY				
Description		ental components of nucleic acids (DNA and RNA). Guanine is a purine derivative, consisting of ring system with conjugated double bonds. Guanine has the potential to serve as a large-		
IC₅₀ & Target	Human Endogenous Metabolite	Microbial Metabolite		

### CUSTOMER VALIDATION

- Talanta. 2023 Sep 6, 125171.
- BMC Neurol. 2023 Dec 16;23(1):444.
- Research Square Preprint. 2022 Feb.





See more customer validations on <u>www.MedChemExpress.com</u>

### REFERENCES

[1]. Mojzeš P, et al. Guanine, a high-capacity and rapid-turnover nitrogen reserve in microalgal cells. Proc Natl Acad Sci U S A. 2020 Dec 22;117(51):32722-32730.

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

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