



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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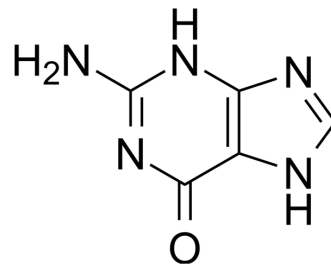
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Guanine

Cat. No.:	HY-Y1055
CAS No.:	73-40-5
Molecular Formula:	C ₅ H ₅ N ₅ O
Molecular Weight:	151
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

0.5 M NaOH : 10 mg/mL (66.23 mM; ultrasonic and adjust pH to 12 with NaOH)
 DMSO : < 1 mg/mL (ultrasonic;warming;adjust pH to 3 with HCl;heat to 70°C) (insoluble or slightly soluble)
 H₂O : < 0.1 mg/mL (insoluble)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM	5 mM	10 mM	
Preparing Stock Solutions	1 mM	6.6225 mL	33.1126 mL	66.2252 mL	
	5 mM	1.3245 mL	6.6225 mL	13.2450 mL	
	10 mM	0.6623 mL	3.3113 mL	6.6225 mL	

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

BIOLOGICAL ACTIVITY

Description

Guanine is one of the fundamental components of nucleic acids (DNA and RNA). Guanine is a purine derivative, consisting of a fused pyrimidine-imidazole ring system with conjugated double bonds. Guanine has the potential to serve as a large-capacity N pool^[1].

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 www.MedChemExpress.com

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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