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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



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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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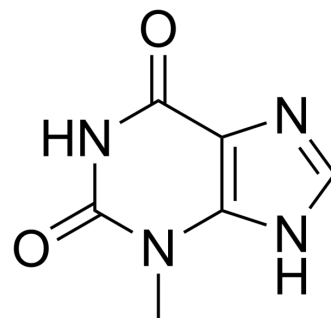
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3-Methylxanthine (Standard)

Cat. No.:	HY-50723R
CAS No.:	1076-22-8
Molecular Formula:	C ₆ H ₆ N ₄ O ₂
Molecular Weight:	166.14
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



SOLVENT & SOLUBILITY

In Vitro

1M NaOH : 50 mg/mL (300.95 mM; ultrasonic and adjust pH to 11 with 1M NaOH)
 DMSO : 2.61 mg/mL (15.71 mM; Need ultrasonic)
 Ethanol : < 1 mg/mL (insoluble)
 H₂O : < 0.1 mg/mL (insoluble)
 DMF : < 1 mg/mL (insoluble)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		6.0190 mL	30.0951 mL	60.1902 mL
	5 mM		1.2038 mL	6.0190 mL	12.0380 mL
	10 mM		0.6019 mL	3.0095 mL	6.0190 mL

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

BIOLOGICAL ACTIVITY

Description

3-Methylxanthine (Standard) is the analytical standard of 3-Methylxanthine. This product is intended for research and analytical applications. 3-Methylxanthine, a xanthine derivative, is a cyclic guanosine monophosphate (GMP) inhibitor, with an IC₅₀ of 920 μM on guinea-pig isolated trachealis muscle^{[1][2]}.

IC₅₀ & Target

IC₅₀: 920 μM (GMP)^[1].

REFERENCES

[1]. Tanaka H, et al. Inhibition of cyclic GMP phosphodiesterase by xanthine derivatives relaxes guinea-pig trachealis smooth muscle. Clin Exp Pharmacol Physiol. 1991 Mar;18(3):163-8.

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

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