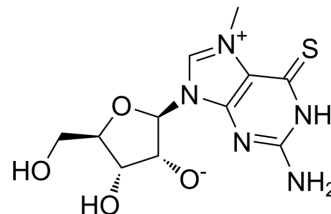


7-Methyl-6-thioguanosine

Cat. No.:	HY-D0995
CAS No.:	55727-10-1
Molecular Formula:	C ₁₁ H ₁₅ N ₅ O ₄ S
Molecular Weight:	313
Target:	Fluorescent Dye
Pathway:	Others
Storage:	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 250 mg/mL (798.72 mM)
H₂O : ≥ 125 mg/mL (399.36 mM)
* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
	Concentration				
	1 mM		3.1949 mL	15.9744 mL	31.9489 mL
	5 mM		0.6390 mL	3.1949 mL	6.3898 mL
	10 mM		0.3195 mL	1.5974 mL	3.1949 mL

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

BIOLOGICAL ACTIVITY

Description

7-Methyl-6-thioguanosine (MESG) is a chromophoric substrate which can be used for the quantitation of inorganic phosphate. 7-Methyl-6-thioguanosine is also used to determine the activity of purine nucleoside phosphorylase^{[1][2]}.

CUSTOMER VALIDATION

- Nat Commun. 2023 Oct 19;14(1):6619.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Cheng Q, et al. A continuous spectrophotometric assay for protein phosphatases. Anal Biochem. 1995 Mar 20;226(1):68-73.

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

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