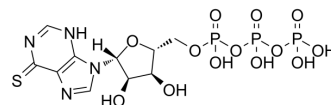


Thio-ITP

Cat. No.:	HY-115755
CAS No.:	27652-34-2
Molecular Formula:	C ₁₀ H ₁₅ N ₄ O ₁₃ P ₃ S
Molecular Weight:	524.23
Target:	DNA/RNA Synthesis
Pathway:	Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Thio-ITP (6-Thioinosine 5'-triphosphate) is an RNA polymerase activity competitive inhibitor. Thio-ITP has a high apparent affinity for the polymerases (RNA polymerase I K _i : 40.9 μM; RNA polymerase II K _i : 38.0 μM) ^[1] .	
IC₅₀ & Target	RNA polymerase I 40.9±11.0 μM (K _i)	RNA polymerase II 38.0±6.47 μM (K _i)
In Vitro	Thio-ITP inhibits both endogenous and exogenous DNA-directed RNA synthesis ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

REFERENCES

[1]. Kawahata RT, Chuang LF, Holmberg CA, Osburn BI, Chuang RY. Inhibition of human lymphoma DNA-dependent RNA polymerase activity by 6-mercaptapurine ribonucleoside triphosphate. *Cancer Res.* 1983 Aug;43(8):3655-9.

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

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