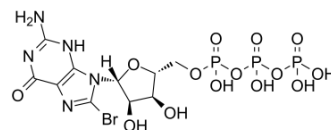


8-Br-GTP

Cat. No.:	HY-134274
CAS No.:	23197-98-0
Molecular Formula:	C ₁₀ H ₁₅ BrN ₅ O ₁₄ P ₃
Molecular Weight:	602.08
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	8-Br-GTP, a GTP analog, is a competitive FtsZ polymerization and GTPase activity (K_i of 31.8 μM) inhibitor. 8-Br-GTP can be used for nucleic acid modification ^[1] .
In Vitro	8-Br-GTP inhibits FtsZ polymerization but does not affect tubulin polymerization. 8-Br-GTP has two stable orientations of the base toward the sugar: anti and syn. 8-Br-GTP shows preference for the syn conformation (population ~90%) ^{[1][2]} . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Tilman Lappchen, et al. GTP analogue inhibits polymerization and GTPase activity of the bacterial protein FtsZ without affecting its eukaryotic homologue tubulin. *Biochemistry*. 2005 May 31;44(21):7879-84.

[2]. Jozef Hritz, et al. Optimization of replica exchange molecular dynamics by fast mimicking. *J Chem Phys*. 2007 Nov 28;127(20):204104.

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

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