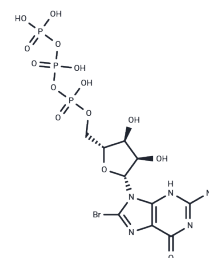


8-Br-GTP

Chemical Properties

CAS No. :	23197-98-0
Formula:	C ₁₀ H ₁₅ BrN ₅ O ₁₄ P ₃
Molecular Weight:	602.076
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	8-Br-GTP, an analog of GTP, functions as both a competitive inhibitor of FtsZ polymerization and GTPase activity (with a K _i value of 31.8 μM). Moreover, it is capable of facilitating nucleic acid modification.
In vitro	8-Br-GTP selectively inhibits FtsZ polymerization without impacting tubulin polymerization. It exhibits two stable base orientations towards the sugar, namely anti and syn, with a marked preference for the syn conformation, constituting approximately 90% of its population [1][2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6609 mL	8.3045 mL	16.6091 mL
5 mM	0.3322 mL	1.6609 mL	3.3218 mL
10 mM	0.1661 mL	0.8305 mL	1.6609 mL
50 mM	0.0332 mL	0.1661 mL	0.3322 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Tilman Lippchen, 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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