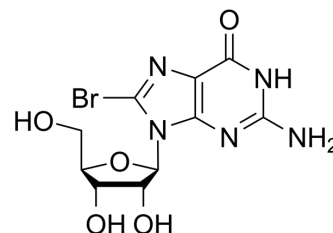


8-Bromoguanosine

Cat. No.:	HY-W019033
CAS No.:	4016-63-1
Molecular Formula:	C ₁₀ H ₁₂ BrN ₅ O ₅
Molecular Weight:	362.14
Target:	Others
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 : 100 mg/mL (276.14 mM; ultrasonic and warming and heat to 60°C)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	2.7614 mL	13.8068 mL	27.6136 mL
				5 mM	0.5523 mL	2.7614 mL	5.5227 mL
				10 mM	0.2761 mL	1.3807 mL	2.7614 mL
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (6.90 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.90 mM); Clear solution						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.90 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	8-Bromoguanosine is a purine nucleoside, a brominated derivative of guanosine. 8-Bromoguanosine can reduce the conformational heterogeneity of RNA to enhance its function ^{[1][2][3]} .
In Vitro	8-Bromoguanosine (16-18 h) induces cytotoxic activity to YAC cells ^[2] . 8-Bromoguanosine (18 h) induces macrophage cytolytic activity to P815 cells ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Goodman MG, Weigle WO. Intracellular lymphocyte activation and carrier-mediated transport of C8-substituted guanine ribonucleosides. Proc Natl Acad Sci U S A. 1984 Feb;81(3):862-6.

[2]. Koo GC, Jewell ME, Manyak CL, Sigal NH, Wicker LS. Activation of murine natural killer cells and macrophages by 8-bromoguanosine. J Immunol. 1988 May 1;140(9):3249-52.

[3]. Yajima R, et al. A conformationally restricted guanosine analog reveals the catalytic relevance of three structures of an RNA enzyme. Chem Biol. 2007 Jan;14(1):23-30.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA