Data Sheet (Cat.No.T7924)

TargetMol

8-Bromoguanosine

Chemical Properties

CAS No. : 4016-63-1

Formula: C10H12BrN5O5

Molecular Weight: 362.137

Storage: Keep away from direct sunlight,Keep away from moisture,Store at low temperature
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	8-Bromoguanosine is a brominated derivative of guanosine. It is activate lymphocytes through an intracellular mechanism to exert immunostimulatory effects.
Targets(IC50)	Nucleoside Antimetabolite/Analog,Others

Solubility Information

Solubility	DMSO: 20.00 mg/mL (55.23 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2.00 mg/mL (5.52 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.0552 mL	0.2761 mL	0.5523 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Selma Giorgio, Sandra C. Barão. Intracellular Leishmania amazonensis killing induced by the guanine nucleoside 8-bromoguanosine[J]. Rev Inst Med Trop Sao Paulo, 1998, 40(4):237-240.
Suzuki T , Kosaka A , Inukai M . Formation of 8-S-l-cysteinylguanosine from 8-bromoguanosine and cysteine[J]. Bioorganic & Medicinal Chemistry Letters, 2013, 23(13):3864-3867.