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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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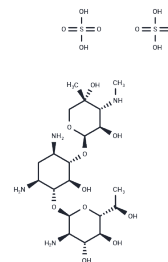
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G-418 disulfate

Chemical Properties

CAS No. :	108321-42-2
Formula:	C ₂₀ H ₄₀ N ₄ O ₁₀ ·2H ₂ O ₄ S
Molecular Weight:	692.71
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	G-418 disulfate (Geneticin sulfate) is an aminoglycoside antibiotic that selectively inhibits eukaryotic protein synthesis by blocking peptide chain elongation.
Targets(IC50)	Antibacterial, Antibiotic
In vitro	Continuous administration of G418 at doses ranging from 40 to 80 mg/kg for three consecutive days is sufficient to eradicate all untransfected Brucella bacterium parasites in infected mice.
In vivo	At concentrations ranging from 1 to 300 micrograms/ml, G418 inhibits a variety of prokaryotic and eukaryotic organisms. Typically, concentrations of 5 mg/L or lower are effective against bacteria and algae, while a concentration of 400 mg/L is used for the selection of mammalian cells, and a maintenance concentration for mammalian cells is set at 200 mg/L.

Solubility Information

Solubility	H ₂ O: 43.31 mM, DMSO: Insoluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4436 mL	7.218 mL	14.4361 mL
5 mM	0.2887 mL	1.4436 mL	2.8872 mL
10 mM	0.1444 mL	0.7218 mL	1.4436 mL
50 mM	0.0289 mL	0.1444 mL	0.2887 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

Delrue I, et al. Determination of the Selection Capacity of Antibiotics for Gene Selection. Biotechnol J. 2018 Aug;13 (8):e1700747.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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