

G-418 Sulfate (Gentamicin)

Product #: GC301011

Quantity: 1 g

Product Description

- G-418 sulfate is derived from the bacterium *Micromonospora rhodorangea* and functions by binding to the ribosome, thereby inhibiting protein synthesis in both prokaryotic and eukaryotic cells.
- This compound is classified as an antibiotic and is commonly utilized for eukaryotic expression screening.
- It is particularly useful for screening stable cell lines expressing specific resistance genes.
- Recommended initial screening concentrations vary: for mammalian cells, it is 400 µg/mL, for plant cells, it is 10 µg/mL, and for yeast, it is 500 µg/mL.
- The concentration of G-418 can be adjusted based on experimental outcomes.

Storage

- Store at 2-8°C and protect from light.

Characteristics

Synonym	G-418 disulfate
CAS	108321-42-2
Molecular formula	C ₂₀ H ₄₀ N ₄ O ₁₀ ·2H ₂ SO ₄
Molecular mass	692.71
Purity	Biotechnology Grade
Appearance (character)	white powder
Storage conditions	2-8°C
Unit	Bottle
Pubchem CID	137705472
MDL No.	MFCD00069666
EC No.	600-864-4
Related categories	Biochemical reagents, antibiotics
Solubility	1 mg/ mL in water



Important Preparatory Notes

The frequently utilized storage solution is created with 100 mM HEPES (pH 7.3) at a concentration of 50 mg/mL. One notable benefit is that the pH of the culture system remains unaffected following the addition of this storage solution.

NOTES:

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