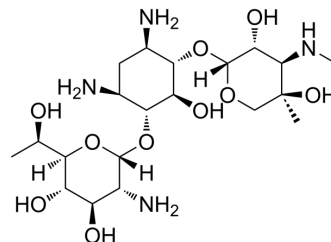


## G-418

Cat. No.:	HY-108718
CAS No.:	49863-47-0
Molecular Formula:	C <sub>20</sub> H <sub>40</sub> N <sub>4</sub> O <sub>10</sub>
Molecular Weight:	496.55
Target:	Bacterial; Parasite; Antibiotic
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	G-418 (Geneticin) is an aminoglycoside antibiotic with a structure similar to gentamicin. It is toxic to both eukaryotic and prokaryotic cells and works by interfering with protein synthesis <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	Aminoglycoside
<b>In Vitro</b>	G-418 (500 µg/mL, 12 days) was used to screen drug-resistant LNCaP cells <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### CUSTOMER VALIDATION

- Nature. 2023 Jun;618(7966):862-870.
- Cancer Commun (Lond). 2022 Nov 9.
- Mol Cell. 2023 Nov 20:S1097-2765(23)00914-0.
- Emerg Microbes Infect. 2023 Sep 19;2261556.
- Theranostics. 2022 Jan 1;12(3):1187-1203.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

### REFERENCES

[1]. S Bennett, et al. Reliable method of isolating transfected clones from the LNCaP human prostatic cell line. Biotechniques. 1997 Jul;23(1):66, 68, 70.

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

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