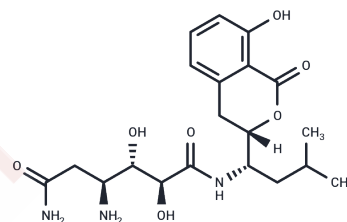


## Amicoumacin A

## Chemical Properties

CAS No. :	78654-44-1
Formula:	C <sub>20</sub> H <sub>29</sub> N <sub>3</sub> O <sub>7</sub>
Molecular Weight:	423.46
Storage:	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	Amicoumacin A has antibacterial activity. It also strongly suppresses inflammatory and ulcer activity.
Targets(IC50)	Others,Antibiotic

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3615 mL	11.8075 mL	23.615 mL
5 mM	0.4723 mL	2.3615 mL	4.723 mL
10 mM	0.2361 mL	1.1807 mL	2.3615 mL
50 mM	0.0472 mL	0.2361 mL	0.4723 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

- Gao XY, Liu Y, Miao LL, Li EW, Hou TT, Liu ZP. Mechanism of anti-Vibrio activity of marine probiotic strain *Bacillus pumilus* H2, and characterization of the active substance. *AMB Express*. 2017 Dec;7(1):23. doi: 10.1186/s13568-017-0323-3. Epub 2017 Jan 17. PubMed PMID: 28097594; PubMed Central PMCID: PMC5241254.
- Prokhorova IV, Akulich KA, Makeeva DS, Osterman IA, Skvortsov DA, Sergiev PV, Dontsova OA, Yusupova G, Yusupov MM, Dmitriev SE. Amicoumacin A induces cancer cell death by targeting the eukaryotic ribosome. *Sci Rep*. 2016 Jun 14;6:27720. doi: 10.1038/srep27720. PubMed PMID: 27296282; PubMed Central PMCID: PMC4906347.
- Melnikov SV, Söll D, Steitz TA, Polikanov YS. Insights into RNA binding by the anticancer drug cisplatin from the crystal structure of cisplatin-modified ribosome. *Nucleic Acids Res*. 2016 Jun 2;44(10):4978-87. doi: 10.1093/nar/gkw246. Epub 2016 Apr 13. PubMed PMID: 27079977; PubMed Central PMCID: PMC4889946.
- Jiang J, Seo H, Chow CS. Post-transcriptional Modifications Modulate rRNA Structure and Ligand Interactions. *Acc Chem Res*. 2016 May 17;49(5):893-901. doi: 10.1021/acs.accounts.6b00014. Epub 2016 Apr 11. PubMed PMID: 27064497.

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