Neomycin A Sulfate (Neamine), EvoPure®
PRODUCT DATA SHEET

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Product Name:	Neomycin A Sulfate (Neamine), EvoPure®
Product Number:	N026
CAS Number:	3947-65-7
Molecular Formula:	$C_{12}H_{26}N_4O_6 \cdot xH_2SO_4$
Molecular Weight:	322.358 (Free Base)
Storage Conditions:	-20°C
Description:	Neomycin A Sulfate (Neamine), EvoPure® is a highly purified Neomycin compound. Neomycin A has been found to have the lowest antibacterial activity (~ 10% of the activity of Neomycin B). Neomycin A can inhibit angiogenin translocation in tumor cell nuclei effectively inhibiting tumor growth. Neomycin A has a lower toxicity profile than other Neomycin components making it a favorable tool in cancer research. For more Neomycin products, click here. **Custom manufacturing and testing**: We are able to prepare custom Neomycin components for your unique specifications for use in cell culture, upstream biopharma manufacturing, or cancer research. Additionally, we offer additional testing including endotoxin content, arsenic content, cell line testing, spectral analysis, and more. For more information, please contact us.
Spectrum:	Neomycin is effective against certain Gram-negative and Gram-positive bacteria; however, Neomycin A is most likely less potent than standard grade Neomycin or Neomycin B.
Cancer Applications	Neomycin A, EvoPure® can be used to study its effects on tumor growth and angiogenesis.
Technical Data:	HPLC, NMR, FTIR, and MS analysis may be available. For more info, please email info@toku-e.com.

References:

Davis BD (1987) Mechanism of bactericidal action of aminoglycosides. Microbiol. Rev. 51(3):341-50

Robertson JH (1971) Antimicrobial activity of Neomycin C against *Staphylococcus epidermidis*. App. Micro. 22(6):1164-1165

Tsuji K and Robertson JH (1969) Comparative study of responses to Neomycins B and C by microbiological and gas-liquid chromatographic assay methods. App. Microbiol. 18(3):396-398

Yuan L and Wei H (2006) Rapid analysis of native Neomycin components on a portable capillary electrophoresis system with potential gradient detection. Analytic. Bioanalyt. Chem. 385(8):1575-1579