

Neomycin trisulfate salt hydrate (BL-50089)

Product information

InChI Key	WHAGUNPVKDUV-FV-QGTTWHFQSA-N
product line	BioReagent
form	powder
potency	≥600 µg neomycin per mg (Dried basis)
solubility	H ₂ O: 50 mg/mL (As a stock solution. Stock solutions should be filter sterilized and stored at 2-8°C. Stable at 37°C for 5 days.)
suitability	suitable for cell culture
Mode of action	protein synthesis interferes

Properties

CAS Number	1405-10-3
Empirical Formula	$C_{23}H_{46}N_6O_{13} \cdot 3H_2SO_4 \cdot xH_2O$
Molecular Weight	908.88 (anhydrous basis)
Beilstein Registry Number	215-773-1
EC Number	24897673

General description

Neomycin Trisulfate is produced by Streptomyces containing a minimum of 85% neomycin B. It has been used as a selection agent for prokaryotic cells transformed using the neo selectable marker gene, and to study ototoxic side effects of antibiotics, platelet-derived growth factor responses in certain fibroblasts, and extraction of Nuclear Phosphatidylinositol 4,5-Bisphosphate-Interacting Proteins. It is recommended for use in cell culture applications at 50 mg/L.