

Documentation

- [SDS](#)
- [Certificates of Analysis](#)
- [References](#)
- [Data Sheet](#)

Neomycin Sulfate - CAS 1405-10-3 - Calbiochem SDS

Title

[Safety Data Sheet \(SDS\)](#)

Neomycin Sulfate - CAS 1405-10-3 - Calbiochem Certificates of Analysis

Title

Lot Number

4801

References

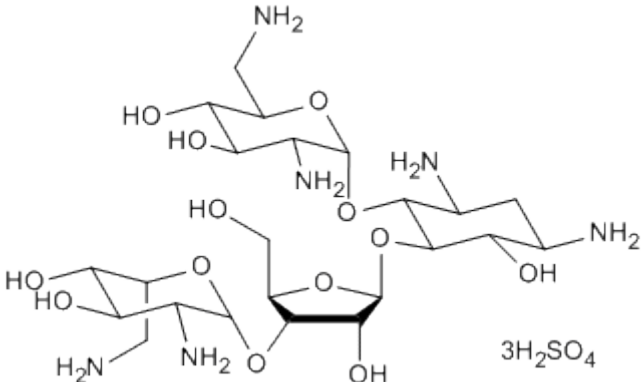
Reference overview

Hu, G.F. 1998. *Proc. Natl. Acad. Sci. USA* 95, 9791.
Wang, J.P., et al. 1996. *J. Biol. Chem.* 271, 8387.
Smith, M.J., et al. 1995. *Dev. Biol.* 167, 239.
Phillippe, M. 1994. *Biochem. Biophys. Res. Commun.* 205, 245.
Canzoniero, L.M., et al. 1993. *Eur. J. Pharmacol.* 245, 97.
Liscovitch, M., et al. 1991. *Biochem. J.* 279, 319.

Data Sheet

Note that this data sheet is not lot-specific and is representative of the current specifications for this product. Please consult the vial label and the certificate of analysis for information on specific lots. Also note that shipping conditions may differ from storage conditions.

Data Sheet

Description	An aminoglycoside antibiotic that inhibits translation by binding to the small subunit of prokaryotic ribosomes. Recently shown to inhibit angiogenin-induced angiogenesis. Blocks voltage-sensitive Ca^{2+} channels without affecting the Na^+ - Ca^{2+} antiporter in nerve cells. A potent inhibitor of skeletal muscle sarcoplasmic reticulum Ca^{2+} release. An inhibitor of inositol phospholipid turnover. A non-specific phospholipase C inhibitor. Also inhibits phosphatidylcholine-phospholipase D activity ($\text{IC}_{50} = 65 \mu\text{M}$).	
Form	White solid	
CAS number	1405-10-3	
RTECS	QP4375000	
Chemical formula	$\text{C}_{23}\text{H}_{46}\text{N}_6\text{O}_{13} \cdot 3\text{H}_2\text{SO}_4$	
Structure formula		
Activity	$\geq 600 \text{ IU/mg}$	
Solubility	H_2O (6 mg/ml)	

Data Sheet

Storage	+15°C to +30°C Protect from moisture Protect from light	
Do Not Freeze	Ok to freeze	
Special Instructions	Following reconstitution, store at room temperature (20°C). Stock solutions are stable for up to 3 months at 20°C.	
Toxicity	Carcinogenic / Teratogenic	
Merck USA index	14, 6454	
References	Hu, G.F. 1998. <i>Proc. Natl. Acad. Sci. USA</i> 95 , 9791. Wang, J.P., et al. 1996. <i>J. Biol. Chem.</i> 271 , 8387. Smith, M.J., et al. 1995. <i>Dev. Biol.</i> 167 , 239. Phillippe, M. 1994. <i>Biochem. Biophys. Res. Commun.</i> 205 , 245. Canzoniero, L.M., et al. 1993. <i>Eur. J. Pharmacol.</i> 245 , 97. Liscovitch, M., et al. 1991. <i>Biochem. J.</i> 279 , 319.	