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## Product Information

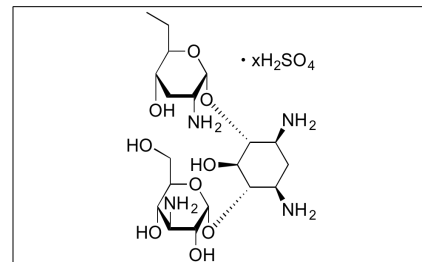
CAS No. 79645-27-5

**Synonym** Gernebcin, Nebcin, Nebicina, Tobra, Tobradistin

**Solubility** Soluble in water (50 mg/mL).

Ship Temp Ambient

**Description** Tobramycin is an aminoglycoside antibiotic that exhibits antibacterial and anti-inflammatory activities. Tobramycin prevents formation of the 70S bacterial ribosomal complex, inhibiting protein translation; it is highly effective in the treatment of *Pseudomonas* infections. In vitro, tobramycin inhibits T cell and neutrophil migration. In separate cellular models, this compound also decreases activation of NF- $\kappa$ B, expression of MUC5AC, and phosphorylation of ERK and p38 MAPK. TEST!!!!!!



## Pricing and Availability

***Bulk quantities available upon request***

Product ID	Size	List Price
T5605	100 mg	\$57.60
T5605	500 mg	\$198.50
T5605	1 g	\$275.60

**References** Papich MG. Antibiotic treatment of resistant infections in small animals. *Vet Clin North Am Small Anim Pract.* 2013 Sep;43(5):1091-107. PMID: 23890241.

Gziut M, MacGregor HJ, Nevell TG, et al. Anti-inflammatory effects of tobramycin and a copper-tobramycin complex with superoxide dismutase-like activity. *Br J Pharmacol*. 2013 Mar;168(5):1165-81. PMID: 23072509.

Nakamura S, Yanagihara K, Araki N, et al. High-dose tobramycin inhibits lipopolysaccharide-induced MUC5AC production in human lung epithelial cells. *Eur J Pharmacol*. 2011 Mar 21. [Epub ahead of print]. PMID: 21414310.

Periti P. Tobramycin--clinical pharmacology and chemotherapy. J Chemother. 1996 Jan;8 Suppl 1:3-30. PMID: 8948764.

King P, Citron DM, Griffith DC, et al. Effect of oxygen limitation on the in vitro activity of levofloxacin and other antibiotics administered by the aerosol route against *Pseudomonas aeruginosa* from cystic fibrosis patients. *Diagn Microbiol Infect Dis*. 2010 Feb;66(2):181-186. PMID: 19828274.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.