



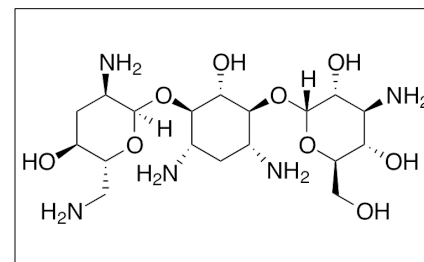
LKT Laboratories, Inc.

Tobramycin, Free Base

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Product Information

Product ID T5604
CAS No. 32986-56-4
Chemical Name O-3-Amino-3-deoxy- α -D-glucopyranosyl-(1 \rightarrow 6)-O- [2,6-diamino-2,3,6-trideoxy- α -D-ribo-hexopyranosyl- (1 \rightarrow 4)]-2-deoxy-D-streptamine
Synonym Nebramycin factor 6, NF 6, Tobracin, Tobrallex, Tobramaxin, Tobrex
Formula C₁₈H₃₇N₅O₉
Formula Wt. 467.51
Melting Point 178° C
Purity \geq 98%
Solubility Soluble in water. Slightly soluble in ethanol. Practically insoluble in ether or chloroform.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
T5604	25 mg	\$68.90
T5604	100 mg	\$104.00
T5604	500 mg	\$318.50

Store Temp Ambient

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- κ B, expression of MUC5AC, and phosphorylation of ERK and p38 MAPK.

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.

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