



Product Information

Product ID T5604

CAS No. 32986-56-4

Chemical Name O-3-Amino-3-deoxy- α -D-glucopyranosyl-(1->6)-O- [2,6-diamino-2,3,6-trideoxy- α -D-ribo-hexopyranosyl- (1->4)]-2-deoxy-D-streptomine

Synonym Nebramycin factor 6, NF 6, Tobracin, Tobralax, Tobramaxin, Tobrex

Formula C₁₈H₃₇N₅O₉

Formula Wt. 467.51

Melting Point 178° C

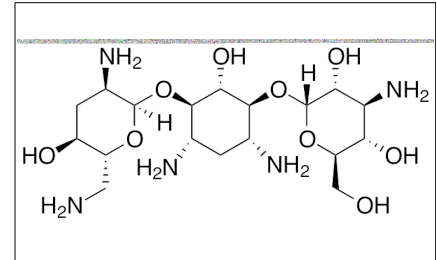
Purity ≥98%

Solubility Soluble in water. Slightly soluble in ethanol. Practically insoluble in ether or chloroform.

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.



Bulk quantities available upon request

Product ID	Size
T5604	25 mg
T5604	100 mg
T5604	500 mg

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.