



Product Information

Product ID N5986

CAS No. 1476-53-5

Chemical Name

Synonym

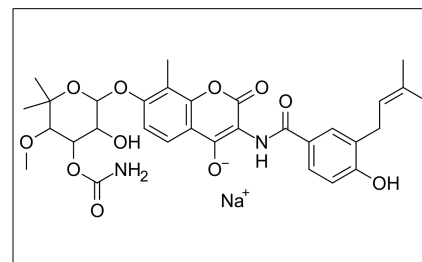
Formula $C_{31}H_{35}N_2NaO_{11}$

Formula Wt. 634.61

Melting Point

Purity ≥98%

Solubility 50mg/ml in water



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
N5986	1 g	\$88.20
N5986	5 g	\$259.60

Store Temp Ambient

Ship Temp Ambient

Description Novobiocin is an aminocoumarin antibiotic that inhibits the ATPase activity of the B subunit of bacterial DNA gyrase. Novobiocin is most often used in the treatment of methicillin-resistant *Staphylococcus aureus* (MRSA) infections. In addition to its antibacterial activity, novobiocin also displays anticancer chemotherapeutic and anti-angiogenic properties. Novobiocin inhibits HIF-1 α binding to transcriptional coactivator p300/CBP in tumor models and analogs of this compound are in development as HSP90 inhibitors.

References Gunaherath GM, Marron MT, Wijeratne EM, et al. Synthesis and biological evaluation of novobiocin analogues as potential heat shock protein 90 inhibitors. *Bioorg Med Chem*. 2013 Sep 1;21(17):5118-29. PMID: 23859777.

Wu D, Zhang R, Zhao R, et al. A novel function of novobiocin: disrupting the interaction of HIF 1 α and p300/CBP through direct binding to the HIF1 α C-terminal activation domain. *PLoS One*. 2013 May 6;8(5):e62014. PMID: 23671581.

Walsh TJ, Standiford HC, Rebolli AC, et al. Randomized Double-Blinded Trial of Rifampin with Either Novobiocin or Trimethoprim-Sulfamethoxazole against Methicillin-Resistant *Staphylococcus aureus* Colonization: Prevention of Antimicrobial Resistance and Effect of Host Factors on Outcome. *Antimicrobial agents and chemotherapy* 1993 Jun;37(6):1334-42. PMID: [8328783](https://pubmed.ncbi.nlm.nih.gov/8328783/).

Maxwell A. The interaction between coumarin drugs and DNA gyrase. *Mol Microbiol* 1993;9(4):681-6. PMID: 8231802.

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