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Product Information

Product ID N5986 CAS No. 1476-53-5

Chemical Name

Synonym

Formula C₃₁H₃₅N₂NaO₁₁

Formula Wt. 634.61

Melting Point

Purity ≥98%

Solubility 50mg/ml in water

Na

Bulk quanitites available upon request

Product ID Size N5986 1 g N5986 5 g

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. Novoboicin inhibits HIF-1α 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 1α and p300/CBP through direct binding to the HIF1α C-terminal activation domain. PLoS One. 2013 May 6;8(5):e62014. PMID: 23671581.

> Walsh TJ, Standiford HC, Reboli 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.

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.