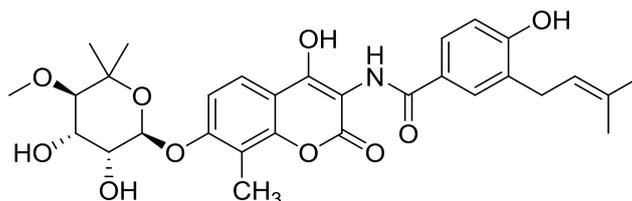


Descarbamylnovobiocin

Code No.: **BIA-D1882**

Pack sizes: **1 mg, 5 mg**



Synonyms : Descarbamoylnovobiocin, Decarbamylnovobiocin, Novclobiocin 103

Specifications

CAS #	: 75057-97-5
Molecular Formula	: C₃₀H₃₅NO₁₀
Molecular Weight	: 569.6
Source	: Semi-synthetic
Appearance	: Off-white residue
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO.

Application Notes

Descarbamylnovobiocin is a member of the novobiocin aminocoumarin antibiotic family found as a minor co-metabolite of novobiocin fermentation and produced as an alkaline degradation product. Like novobiocin, descarbamylnovobiocin is an inhibitor of the bacterial type II topoisomerase, DNA gyrase. It is less effective than novobiocin in eliminating the wild-type plasmid pMG110 from *E. coli*.

References

1. Decarbamoylnovobiocins. Wolf F.J. US Patent 2938899, 1960.
2. Elimination of plasmid pMG110 from *Escherichia coli* by novobiocin and other inhibitors of DNA gyrase. Hooper D.C. et al., *Antimicrob. Agents Chemother.* 1984, 25, 586.
3. Structure-activity relationships of aminocoumarin-type gyrase and topoisomerase IV inhibitors obtained by combinatorial biosynthesis. Flatman R.H. et al., *Antimicrob. Agents Chemother.* 2006, 50, 1136.