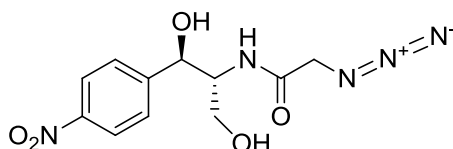


Azidamfenicol

Code No.: **BIA-A1485**

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



Synonyms : Azidoamphenicol, Leukomycin N

Specifications

CAS #	: 13838-08-9
Molecular Formula	: C₁₁H₁₃N₅O₅
Molecular Weight	: 295.3
Source	: Synthetic
Appearance	: White solid
Purity	: >99% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Poor water solubility.

Application Notes

Azidamfenicol is a semi-synthetic chloramphenicol in which the nitro moiety is replaced with a methylsulphonyl and the dichloroacetamide is replaced with azidoacetamide, first synthesised at Bayer in 1959. Azidamfenicol is a broad spectrum antibiotic with good activity against Gram negative and anaerobic bacteria. Azidamfenicol acts by binding to the 23S sub-unit of the 50S ribosome, inhibiting protein synthesis. Azidamfenicol has received little research attention with only a few literature citations.

References

- 1-p-Nitrophenyl-2-azidoacetylaminopropane derivatives. Meiser W. & Domagk G. 1959 US Patent 2,882,275.