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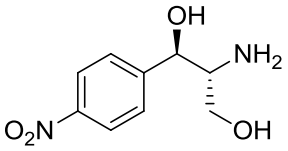
PRODUCT DATA SHEET

Chloramphenicol base

Code No.: **BIA-C1475**

Pack sizes: **25 mg, 100 mg**



Synonyms :

Specifications

CAS #	:	**716-61-0**
Molecular Formula	:	**$C_9H_{12}N_2O_4$**
Molecular Weight	:	**212.2**
Source	:	**Synthetic**
Appearance	:	**White solid**
Purity	:	**>99% by HPLC**
Long Term Storage	:	**-20°C**
Solubility	:	**Soluble in ethanol, methanol, DMF or DMSO. Limited water solubility.**

Application Notes

Chloramphenicol base is the parent 4-nitrophenylpropylamine formed by the hydrolysis of the dichloroacetamide of chloramphenicol and is a degradation product commonly encountered with commercial production of chloramphenicol. Chloramphenicol base has no antibiotic activity but has played an integral role in the synthesis and SAR of new generation antibiotics, notably thiamphenicol and experimental analogues, bromamphenicol and methamphenicol.

References

1. Chloramphenicol (chloromycetin). IV. Chemical studies. Rebstock M.C. et al. J. Am. Chem. Soc. 1949, 71, 2458.
2. Chloramphenicol (chloromycetin). VI. A synthetic approach. Long L.M. & Troutman H.D. J. Am. Chem. Soc. 1949, 71, 2469.
3. Biochemical studies on chloramphenicol. III. Isolation and identification of metabolic products in urine. Glazko A.J. et al. J. Biol. Chem. 1950, 183, 679.
4. Structure-activity relationships of chloramphenicols. Hansch C. et al. J. Med. Chem. 1973, 16, 917.

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