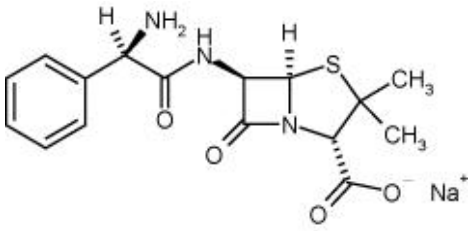
PRODUCT DATA SHEET

Ampicillin . sodium salt

ALX-380-268
Antibiotic



Product Number/Sizes

ALX-380-268-G005	5 g

β-Lactam antibiotic. Inhibits bacterial cell-wall synthesis (peptidoglycan cross-linking). Inactivates transpeptidases on the inner surface of the bacterial cell membrane. Effective against Gram-negative and Gram-positive bacteria. Is inactivated by β-lactamase.

Product Details

ALTERNATIVE NAME:	D-(-)-α-Aminobenzylpenicillin . Na
FORMULA:	$C_{16}H_{18}N_3O_4S$. Na
MW:	348.4 . 23.0
SOURCE:	Semisynthetic from penicillin.
CAS:	69-52-3
MI:	**14:** 586
RTECS:	XH8400000
PURITY:	≥93% (Assay)
APPEARANCE:	White to light yellow powder.
SOLUBILITY:	Soluble in water (50mg/ml).
SHIPPING:	Ambient Temperature
LONG TERM STORAGE:	-20°C
REGULATORY STATUS:	RUO - Research Use Only

Product Literature References

Nerve growth factor and epidermal growth factor rescue PC12 cells from programmed cell death induced by etoposide: distinct modes of protection against cell death by growth factors and a protein-synthesis inhibitor M. Nakajima, et al. Neurosci. Lett. **176** 161 (1994)

Schedule-dependent effects of two consecutive, divided, low doses of actinomycin D on translocation of protein B23, inhibition of cell growth and RNA synthesis in HeLa cells B.Y. Yung, et al. Int. J. Cancer **52** 317 (1992)

Induction of apoptosis (programmed cell death) in human leukemic HL-60 cells by inhibition of RNA or protein synthesis S.J. Martin, et al. J. Immunol. **145** 1859 (1990)

Short exposure to actinomycin D induces "reversible" translocation of protein B23 as well as "reversible" inhibition of cell growth and RNA synthesis in HeLa cells B.Y. Yung, et al. Cancer Res. **50** 5987 (1990)

Sulbactam/ampicillin. A review of its antibacterial activity, pharmacokinetic properties, and therapeutic use D.M. Campoli-Richards & R.N. Brogden Drugs **33** 577 (1987)

N7-Substituted 7-aminoactinomycin D analogues. Synthesis and biological properties M.S. Madhavarao, et al. J. Med. Chem. **21** 958 (1978)

7-substituted actinomycin D analogs. Chemical and growth-inhibitory studies S.K. Sengupta, et al. J. Med. Chem. **18** 1175 (1975)

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