Cloxacillin, BSA-conjugate

DAG4467 chemosynthetic
Lot. No. (See product label)

PRODUCT INFORMATION

Product overview	Cloxacillin, BSA-conjugate
Description	The cloxacillin sodium and BSA (bovine serum albumin) (10 mg each) are conjugated by EDC method in 0.1 M MES pH 5.0. The carboxyl group in the cloxacillin is directly linked to an amine group in the BSA without any linker by EDC conjugation method. Given
Species	chemosynthetic
Conjugate	BSA
Applications	The cloxacillin, BSA-conjugate has been shown to be recognized by cloxacillin-specific antibodies by ELISA and lateral flow based immunoassay, respectively.
Usage	Used as capture antigen for the detection of anti-cloxacillin antibodies and as immunogen for the generation of cloxacillin antibodies
Notes	for research use only

PACKAGING

Storage	Keep below -20°C for up to 1 year. Avoid repeated freeze-and-thaw. For short term storage (< 3 weeks) keep at 4°C.
Concentration	2.0 mg/ml
Buffer	BSA(in 20 mM PBS, pH 7.4)

BACKGROUND

Introduction	Cloxacillin is a semisynthetic antibiotic in the same class as penicillin. Cloxacillin was discovered and developed by Beecham. It is sold under a number of trade names, including Cloxapen, Cloxacap, Tegopen and Orbenin. Cloxacillin is used against staphylococci that produce beta-lactamase, due to its large R chain, which does not allow the beta-lactamases to bind. This drug has a weaker antibacterial activity than benzylpenicillin, and is devoid of serious toxicity except for allergic reactions. It has been suggested, in one study, that increased use of cloxacillin may permit reduced use of vancomycin.
Keywords	6-[[[3-(2-chlorophenyl)-5-methyl-4-isoxazolyl]carbonyl]amino]-3,3-dimethyl-7-o; 6-[3-(o-chlorophenyl)-5-methyl-4-isoxazolecarboxamido]penicillanicacid; brl1621; methocillins; Cloxacillin; Cloxapen; Cloxacap; Tegopen; Orbenin

REFERENCES

1. David Greenwood (2008). Antimicrobial drugs: chronicle of a twentieth century medical triumph. Oxford University Press US. pp. 124–. ISBN 978-0-19-953484-5. Retrieved 18 November 2010.

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