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Essentiality of conserved amino acid residues in β -lactamase

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Essentiality of conserved amino acid residues in β -lactamase

Aleksandra Chikunova

**Essentiality of conserved amino acid residues
in β -lactamase**

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List of abbreviations

BCG	Bacille Calmette-Guerin
CD	Circular dichroism
CSP	Chemical shift perturbation
DTT	Dithiothreitol
EDO	Ethylene glycol
EDTA	Ethylenediaminetetraacetic acid
ESBL	Extended spectrum β -lactamases
HSQC	Heteronuclear single quantum coherence
IPTG	Isopropyl β -D-1-thiogalactopyranoside
MDR	Multidrug resistant
MIC	Minimal inhibitory concentration
Mtb	<i>Mycobacterium tuberculosis</i>
NMR	Nuclear magnetic resonance
PA	Polyacrylamide
PAS	Para-aminosalicylic acid
PBP	Penicillin-binding protein
PEG	Polyethylene glycol
RMSD	Root-mean-square deviation
SDS	Sodium dodecyl sulfate
TEV	Tobacco Etch Virus
TROSY	Transverse relaxation optimized spectroscopy
TSA	Thermal shift assay
TSP	Trimethylsilylpropanoic acid
WHO	World Health Organization
XDR	Extensively drug resistant

Chapter 1 Introduction