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Essentiality of conserved amino acid residues in β -lactamase

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Citation

Chikunova, A. (2022, May 31). *Essentiality of conserved amino acid residues in β -lactamase*. Retrieved from <https://hdl.handle.net/1887/3304732>

Version: Publisher's Version

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Aleksandra Chikunova

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Proefschrift

ter verkrijging van
de graad van doctor aan de Universiteit Leiden,
op gezag van rector magnificus prof. dr. ir. H. Bijl,
volgens besluit van het college voor promoties
te verdedigen op dinsdag 31 mei 2022
klokke 15:00 uur

door

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geboren te Moskou, Rusland
in 1993

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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