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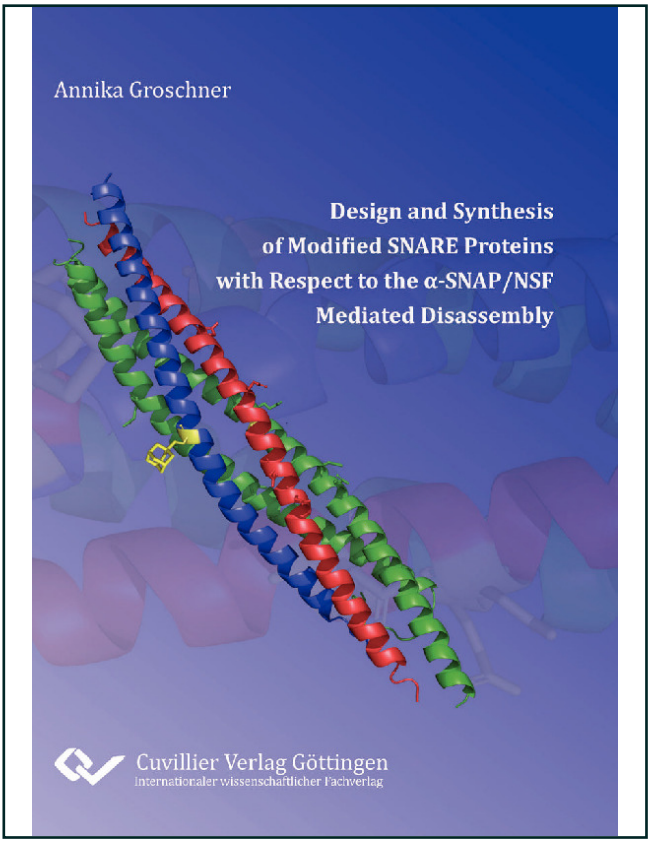
Design and Synthesis of Modified SNARE Proteins with Respect to the α-SNAP/NSF Mediated Disassembly



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performed as α-peptide, extended with amino acids known to promote the α-helical propensity.

For understanding of biological systems the investigation of conformational dynamics and interactions of individual proteins is important. Therefore, in a final part, small independently folding protein domains were synthesized by solid phase peptide synthesis and labeled with respect to the development of the single molecule fluorescence spectroscopy (smFRET) technique. This method is a convenient tool of monitoring single folding and unfolding events of proteins.

Contents

1. Outline 1
1.1 Intracellular Protein Transport and SNAREs 1
1.2 Investigation of Independently Folding Proteins using smFRET 2
1.3 Motivation of this Study 3
2. SNAREs as Mediators for Membrane Fusion 7
2.1 Principles of Intracellular Fusion Reactions 7
2.1.1 Structures of SNAREs and the Core Complex 7
2.1.2 Synaptobrevin - A Deeper View to One of the SNARE Proteins 11
2.1.3 The Pathway of Assembly: *N* before *C* 12
2.1.4 Assembly of the SNARE Core Complexes 13
2.1.5 Recycling of the SNARE Core Complexes 16
2.2 Complexin: Inhibitor or Stimulator of SNARE Mediated Fusion Process 22
2.3 Bioinspired Organic Chemistry 25
2.3.1 β-Peptides 26
2.3.2 Folding Processes of Single Protein Motifs 29
3. Synthesis of Synaptobrevin Derivatives and their Application Regarding the α-SNAP/NSF Mediated Disassembly 35
3.1 Design of the Synaptobrevin Derivatives 35
3.1.1 Synthetic Synaptobrevin Model Systems 38
3.2 Synthesis of the Synaptobrevin Constructs 40
3.2.1 Synthesis of Synaptobrevin Derivatives with Lysine Mutations 40
3.2.2 Synthesis of Synaptobrevin Derivatives containing Adamantyl Building Blocks 41

3.3 Investigation of SNARE Complex Assembly and Disassembly Properties 42
3.3.1 Investigation of SNARE complex Assembly 43
3.3.2 Investigation of SNARE complex Disassembly Properties 47
3.4 Conclusion 51
4. Design and Synthesis of Peptide Mimics of Complexin 53
4.1 Complexin as a β-Peptide 54
4.1.1 Design of a β-Peptide Analog of Complexin 54
4.1.2 Synthesis of Complexin as a β-Peptide 56
4.1.3 Characterization of the Helix Conformation 61
4.1.4 Investigation of Complex Formation with the SNARE Complex 62
4.2 Extension of the Complexin Helix 63
4.2.1 Design of Elongated Complexin Derivatives 64
4.2.1 Synthesis of Elongated Complexin Derivatives 64
4.2.3 Investigation of the Secondary Structure 65
4.2.4 Investigation of the SNARE Complex/Complexin Assembly 66
4.3 Conclusion 67
5. Design and Synthesis of Indepently Folding Protein Domains 69
5.1 The HTH Motif as Model System for smFRET studies 69
5.1.1 Design of the HTH EnHD Motif 69
5.1.2 Synthesis of the HTH Motif 72
5.1.3 Investigation of Structural Characteristics 77
5.2 The WW domain 78
5.2.1 Design of the WW Motif 78
5.2.2 Synthesis of the WW Motif 80
5.3 Conclusion 80
6. Summary 83
7. Experimental Parts 87
7.1 Materials and Characterization 87
7.2 General Procedures 91
7.3 Building Block Synthesis 95
7.3.1 Synthesis of the *N*-Fmoc-adamantyl-amino acid building block 95
7.3.2 Synthesis of the *N*-Boc-β^3-amino acid building blocks 97
7.3.3 Synthesis of the *N*-Fmoc-β^3-amino acid building blocks 107

7.4 Synthesis of the Linear Peptides 112
7.4.1 Synaptobrevin derivatives 112
7.4.2 Complexin derivatives 116
7.4.3 HTH EnHD derivatives 117
7.4.4 WW domain derivatives 120
Appendix 121
Abbreviations 125
References 129
Acknowledgements 137
Curriculum Vitae 141