

Supporting information

**Conventional and unconventional secretory proteins
expressed with silkworm bombyxin signal peptide
display functional fidelity**

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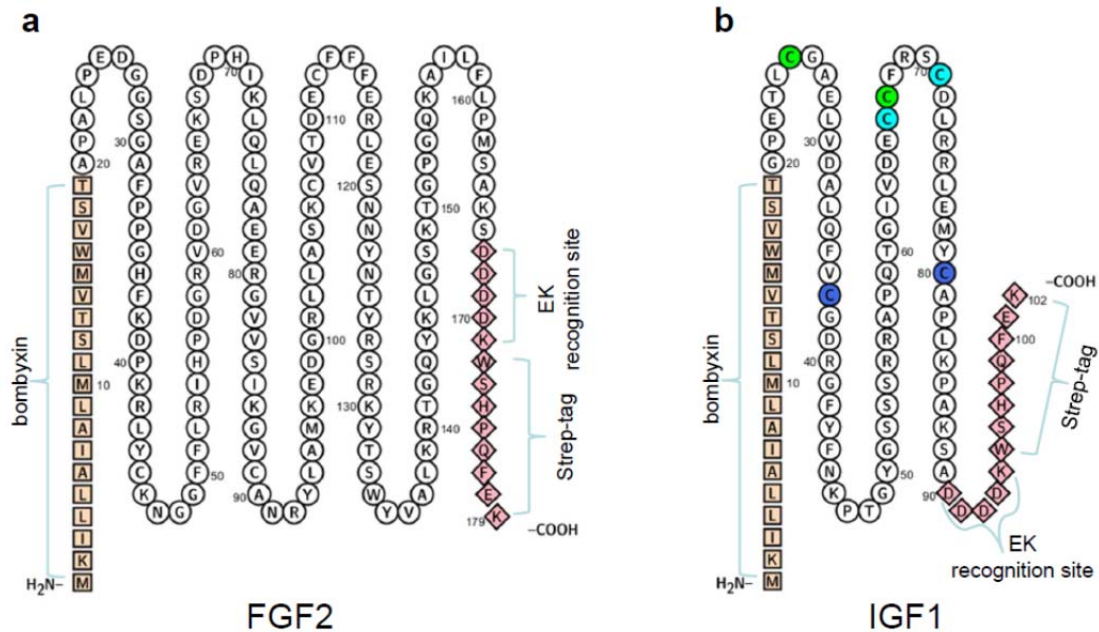
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Supplementary Figure S1. Amino acid sequences of human Ala-FGF2 (UniProt accession: P09038) and IGF1 (UniProt accession: P05019) constructs containing an amino-terminal bombyxin signal peptide, a carboxy-terminal enterokinase (EK) cleavage site and Strep-tag. To avoid abrupt conformational change introduced by the N-terminal proline of FGF2 near the junction between bombyxin signal peptide and mature FGF2, an alanine residue (Ala at position 20) was added to the N-terminus of FGF2. Cysteine residues forming disulfide bonds in IGF1 are colored with disulfide pairs in green, cyan and blue. Illustrations of primary sequences were generated using Protter (<http://wlab.ethz.ch/protter/start/>).