**Supplementary File 1.**

**Synthetic PG fragments used in this study**

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| --- | --- | --- |
|   | **Description** | **PG fragment** |
| 1 | pentaGly (pGly) | H2N-GGGGG-COOH |
| 2 | pGly N-term linked to D-Ala-Lys | H2N-KDA-GGGGG-COOH |
| 3 | pGly N-term linked to tetrapeptide stem | H2N-ADiQKDA-GGGGG-COOH |
| 4 | pGly C-term linked to Nz of Lys tetrapeptide stem | H2N-ADiQK(Nz-GGGGG-NH2)DA-COOH |
| 5 | pGly C-term linked to Nz of Lys in pentapeptide stem | H2N-ADiQK(Nz-GGGGG-NH2)DADA-COOH |
| 6 | pGly C-term linked to Nz of Lys in tetrapeptide stem and N-term to D-Ala-Lys | H2N-ADiQK(Nz-GGGGG-DAK-NH2)DA-COOH |
| 7 | pGly C-term linked to Nz of Lys in pentapeptide stem and N-term to tetrapeptide stem | H2N-ADiQK(Nz-GGGGG-DAKDiQA-NH2)DADA-COOH |
| 8 | triGly C-term linked to Nz of Lys in pentapeptide stem and N-term to tetrapeptide stem | H2N-ADiQK(Nz-GGG-DAKDiQA-NH2)DADA-COOH |
| 9 | monoGly C-term linked to Nz of Lys in pentapeptide stem and N-term to tetrapeptide stem | H2N-ADiQK(Nz-G-DAKDiQA-NH2)DADA-COOH |
| 10 | GSGGG N-term linked to D-Ala-L-Lys | H2N-KDA-GSGGG-COOH |
| 11 | GGSGG N-term linked to D-Ala-L-Lys | H2N-KDA-GGSGG-COOH |
| 12 | tetraGly N-term linked to D-Ala-L-Lys | H2N-KDA-GGGG-COOH |
| 13 | triGly N-term linked to D-Ala-L-Lys | H2N-KDA-GGG-COOH |
| 14 | diGly N-term linked to D-Ala-L-Lys | H2N-KDA-GG-COOH |
| 15 | pGly N-term linked to L-Ala-L-Lys | H2N-KA-GGGGG-COOH |