Toxins **2018**, *10*, 320; doi: 10.3390/toxins10080320

Supplementary Materials: Biological Activities of Cationicity-Enhanced and Hydrophobicity-Optimized Analogues of an Antimicrobial Peptide, Dermaseptin-PS3, from the Skin Secretion of *Phyllomedusa sauvagii*

Yining Tan, Xiaoling Chen, Chengbang Ma, Xinping Xi, Lei Wang, Mei Zhou, James F. Burrows, Hang Fai Kwok and Tianbao Chen

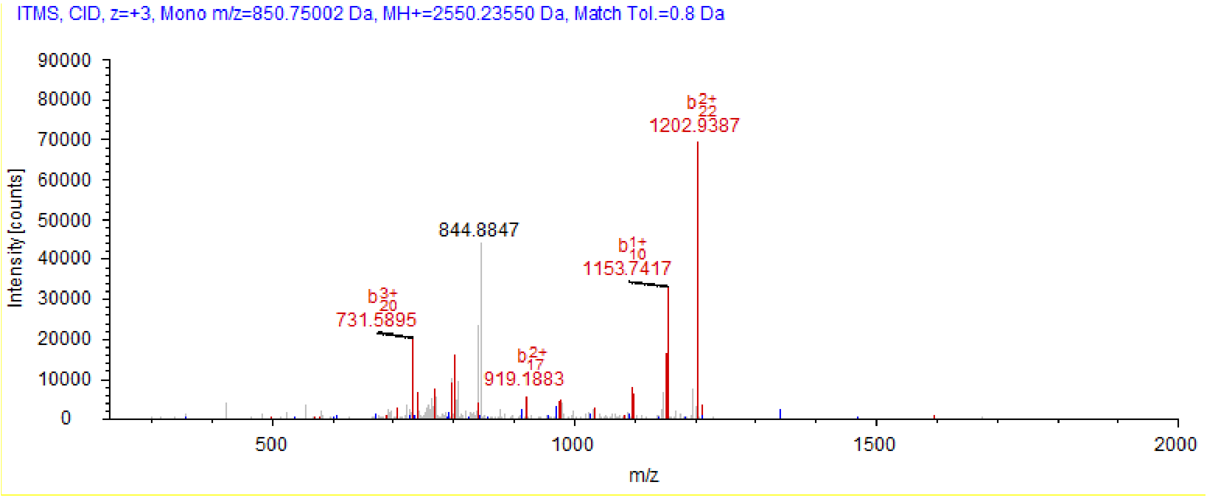

Figure S1. Annotated fragment ion spectrum of DPS3.

```
Name                       Sequence                                Reference

DRS-LIKE            ALW-------KDVLKKIGTVALHAGKAALGAVADTISQ---        [5]
DPS1                ALW-------KTMLKKLGTMALHAGKAALGAAADTISQGTQ         a
DRS-S2              ALW-------FTMLKKLGTMALHAGKAALGAAANTISQGTQ        [19]
DRS-B2              GLWSKIKEVGKEAAKAAAKA---AGKAALGAVSEAV-----        [8]
DPS2                ALW-------KTLLKNVGKA---AGKAVLNAVTDMVNQGEQ        [20]
Dermaseptin-PH      ALW-------KEVLKN-------AGKAALNEINNLVQGGQ-        [3]
DRS-B6              ALW-------KDILKN-------AGKAALNEINQLVNQ---        [1]
DPS3                ALW-------KDILKN-------AGKAALNEINQIVQ----        [1]
                     **           *        **** *
```

Figure S2. Alignment of amino acid sequences of DPS3 and other dermaseptins. The corresponding references are showed behind. "a": The sequence of DPS1 is obtained from GenBank database under the accession no. of SIW62024. The identical amino acid residues are indicated by asterisks..