**Supporting Information**

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| S1 Table: MS parameters for MRM-transitions

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| --- | --- | --- | --- | --- |
| Analyte | MRM transitions | Declustering potential (DP), V | Entrance potential (EP), V | Cell entrance potential (CEP), V |
| Fmoc-Hypoglycin | **362→166***362→122a* | -30-30 | -3-3 | -20-20 |
| Fmoc-Norvaline | **338→116***338→14a* | -15-15 | -8-8 | -25-25 |

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| Quantifier and qualifier transitions are indicated in bold and italics, respectively |