**Supporting Information**

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| S1 Table: MS parameters for MRM-transitions   |  |  |  |  |  | | --- | --- | --- | --- | --- | | 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 | | |
| Quantifier and qualifier transitions are indicated in bold and italics, respectively |