**Figure 5 – source data 1. Calculated and observed masses of CylLS peptides modified by CylM and CylM mutants *in E. coli*.** All calculated masses are [M+H]. - : not observed.

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | M–4 H2O | M–3 H2O | M–2 H2O | M–H2O | M | M–2 H2O + HPO3 | M–H2O + HPO3 | M + HPO3 | M–2 H2O + 2 HPO3 | M–H2O + 2 HPO3 | M+ 2 HPO3 | M+ 3 HPO3 |
| enzyme treatment |  |  |  |  |  |  |  |  |  |  |  |  |
| Calc. | 8331 | 8349 | 8367 | 8385 | 8403 | 8447 | 8465 | 8483 | 8527 | 8545 | 8563 | 8643 |
| CylM | 8331 | - | - | - | - | - | - | - | - | - | - | - |
| CylM-D347A | - | - | - | - | 8401 | - | - | - | - | - | - | - |
| CylM-H349A | 8332 | 8350 | - | 8386 | 8402 | - | - | - | - | - | - | - |
| CylM-N352A | - | - | - | - | 8402 | - | - | - | - | - | - | - |
| CylM-D364A | - | - | - | - | 8403 | - | - | - | - | - | - | - |
| CylM-D252A | - | - | 8364 | 8381 | - | 8444 | 8462 | 8479 | 8525 | 8542 | 8559 | 8640 |
| CylM-H254A | - | - | - | 8384 | 8402 | - | 8464 | 8482 | - | - | - | - |
| CylM-R506A | - | - | - | - | 8402 | - | - | 8482 | - | - | 8562 | - |
| CylM-T512A | - | - | - | - | 8402 | - | - | 8482 | - | - | - | - |
| CylM-K274A | 8332 | - | - | 8385 | 8402 | - | - | - | - | - | - | - |