



| | α -helix (%) | β -sheet (%) | β -turn (%) | other (%) | Tm (°C) |
|-------|---------------------|--------------------|-------------------|-----------|---------|
| SLO | 30 | 25 | 12 | 33 | 45.76 |
| SLOsm | 30 | 25 | 12 | 33 | 45.03 |
| SLOdm | 28 | 26 | 12 | 34 | 45.50 |

FIG. S1 Structural analysis of SLO and mutant derivatives. Circular dichroism profiles of SLO, SLO P427L (SLOsm) and SLO P427L-W535F (SLOdm). The percentage of protein regions with different secondary structures and the T melting temperature (Tm) obtained by Differential Scanning Calorimetry (DSC) are reported in the lower table.