

**Supplementary Table S8A.** Hippocampus Doublecortin - optical density data of experimental samples and loaded internal standards.

| CON+SAL Group.<br>Animal number | Optical Density | KA+SAL Group.<br>Animal Number | Optical Density | KA+MI Group.<br>Animal Number | Optical Density | Amount of loaded Internal Standard (µg) | Optical Density |
|---------------------------------|-----------------|--------------------------------|-----------------|-------------------------------|-----------------|---|-----------------|
| CON+SAL-1                       | 225.3           | KA+SAL-1                       | 600.0           | KA+MI-1                       | 425.8           | 0                                       | 0               |
| CON+SAL-2                       | 236.6           | KA+SAL-2                       | 282.7           | KA+MI-2                       | 499.4           | 15                                      | 231.1           |
| CON+SAL-3                       | 208.7           | KA+SAL-3                       | 448.5           | KA+MI-3                       | 461.7           | 30                                      | 538.6           |
| CON+SAL-4                       | 293.2           | KA+SAL-4                       | 519.6           | KA+MI-4                       | 518.9           | 45                                      | 679.6           |
| CON+SAL-5                       | 288.5           | KA+SAL-5                       | 430.3           | KA+MI-5                       | 209.0           | 60                                      | 820.6           |

**Supplementary Table S8B.** Hippocampus Doublecortin - relative amounts of protein data. These data were calculated from the calibration plot of internal standard protein amount with corresponding optical densities (see Materials and Methods, section 4.7.3. Electrophoresis and Western immunoblotting ).

| CON+SAL Group.<br>Animal number | Relative amount of protein | KA+SAL Group.<br>Animal Number | Relative amount of protein | KA+MI Group.<br>Animal Number | Relative amount of protein |
|---------------------------------|----------------------------|--------------------------------|----------------------------|-------------------------------|----------------------------|
| CON+SAL-1                       | 0.47                       | KA+SAL-1                       | 1.34                       | KA+MI-1                       | 0.93                       |
| CON+SAL-2                       | 0.49                       | KA+SAL-2                       | 0.60                       | KA+MI-2                       | 1.11                       |
| CON+SAL-3                       | 0.43                       | KA+SAL-3                       | 0.99                       | KA+MI-3                       | 1.02                       |
| CON+SAL-4                       | 0.63                       | KA+SAL-4                       | 1.15                       | KA+MI-4                       | 1.15                       |
| CON+SAL-5                       | 0.61                       | KA+SAL-5                       | 0.94                       | KA+MI-5                       | 0.43                       |