**Figure 7-Source data 1:**

**Microtubule dynamics (Data provided as Mean**±**SEM)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Type of analysis** | **WT** | ***Tubb4aD249N/+*** | ***Tubb4aD249N/D249N*** |
| Run time | 29.67 ± 0.79 | 28.55 ± 0.58 | 24.86 ± 0.59 |
| Run length | 7.208 ± 0.19 | 6.704 ± 0.14 | 6.003 ± 0.14 |