Figure S1 : Unmerged images from Fig. 3

Microtubules were detected using an Alexa647-labeled, anti-α-tubulin antibody (purple); biotinylated NFL-TBS.40-63 peptide was labeled with streptavidin Alexa488 (green), the nuclei with diamidino phénylindole (DAPI; blue) and mitochondria with a mitotracker (RedCMX ROS). The *red bars* are the measuring scale.



Figure S2 : In vitro effect on mitochondrial motility of 15 hours exposure with 10 μ M NFL-TBS.40-63 peptide compared to scramble, using live confocal microscopy and Metamorph software (*N*=6). Time duration 3 minutes, image every 5 seconds. T30 and T60 in seconds





Peptide





Scramble

Figure S3 : In vitro effect on T98G cell migration of 15 hours exposure with 10 μ M NFL-TBS.40-63 peptide, using Transwell migration assay . (* *P*< 0.05)



Figure S4: Confocal imaging of untreated T98G cells

Microtubules were detected using an Alexa647-labeled, anti- α -tubulin antibody (purple); biotinylated NFL-TBS.40-63 peptide was labeled with streptavidin Alexa488 (green), the nuclei with diamidino phénylindole (DAPI; blue) and mitochondria with a mitotracker (RedCMX ROS). The *red bars* are the measuring scale.

