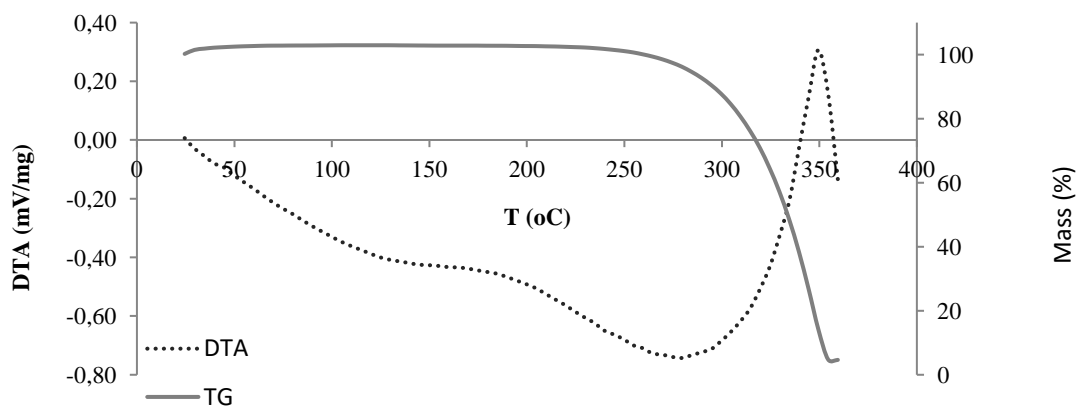
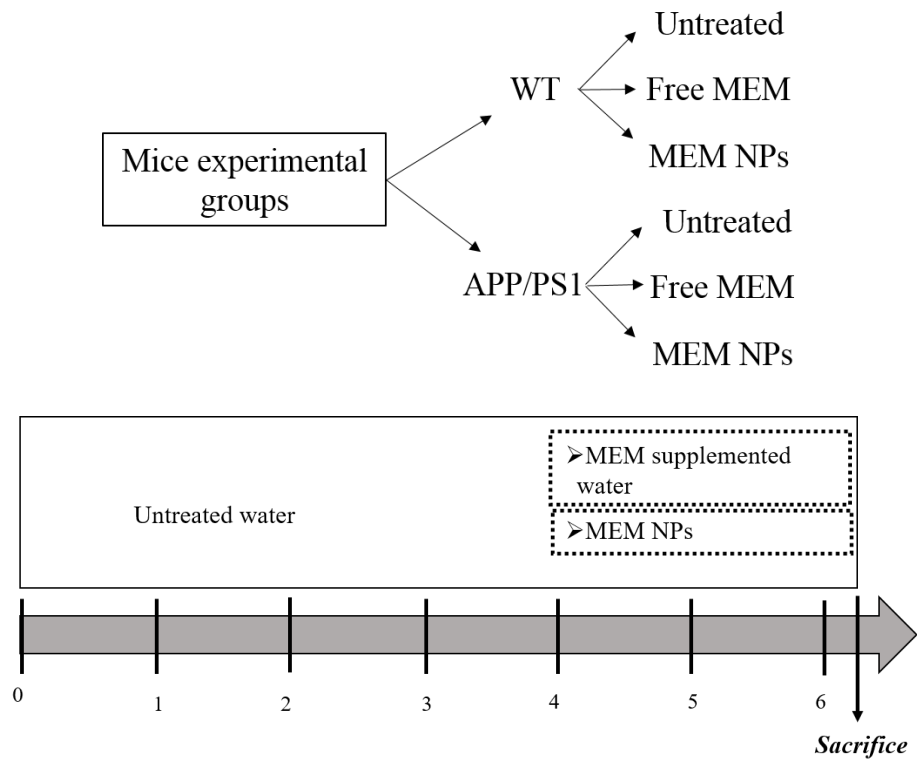


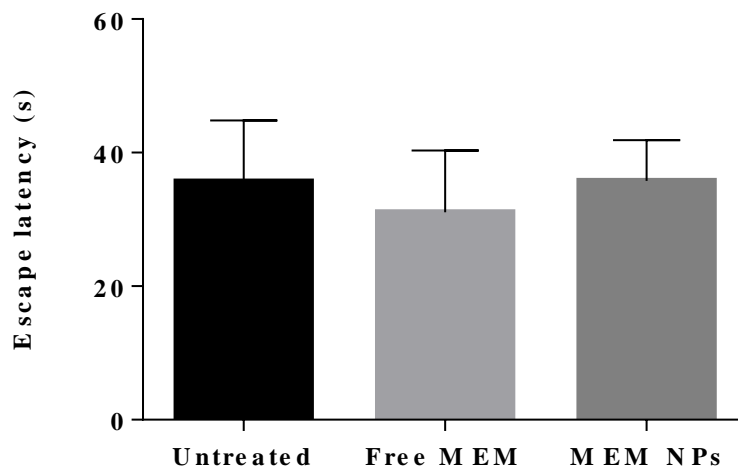
**Figure S1.** MEM-PLGA-PEG NPs transmission electron microscopy and size distribution obtained by dynamic light scattering.



**Figure S2.** MEM thermogravimetric and differential thermal analysis.



**Figure S3.** A) Experimental groups involved on the study, B) *In vivo* Timeline



**Figure S4.** Escape latency results of the Morris water maze test on the probe trail of the WT mice.