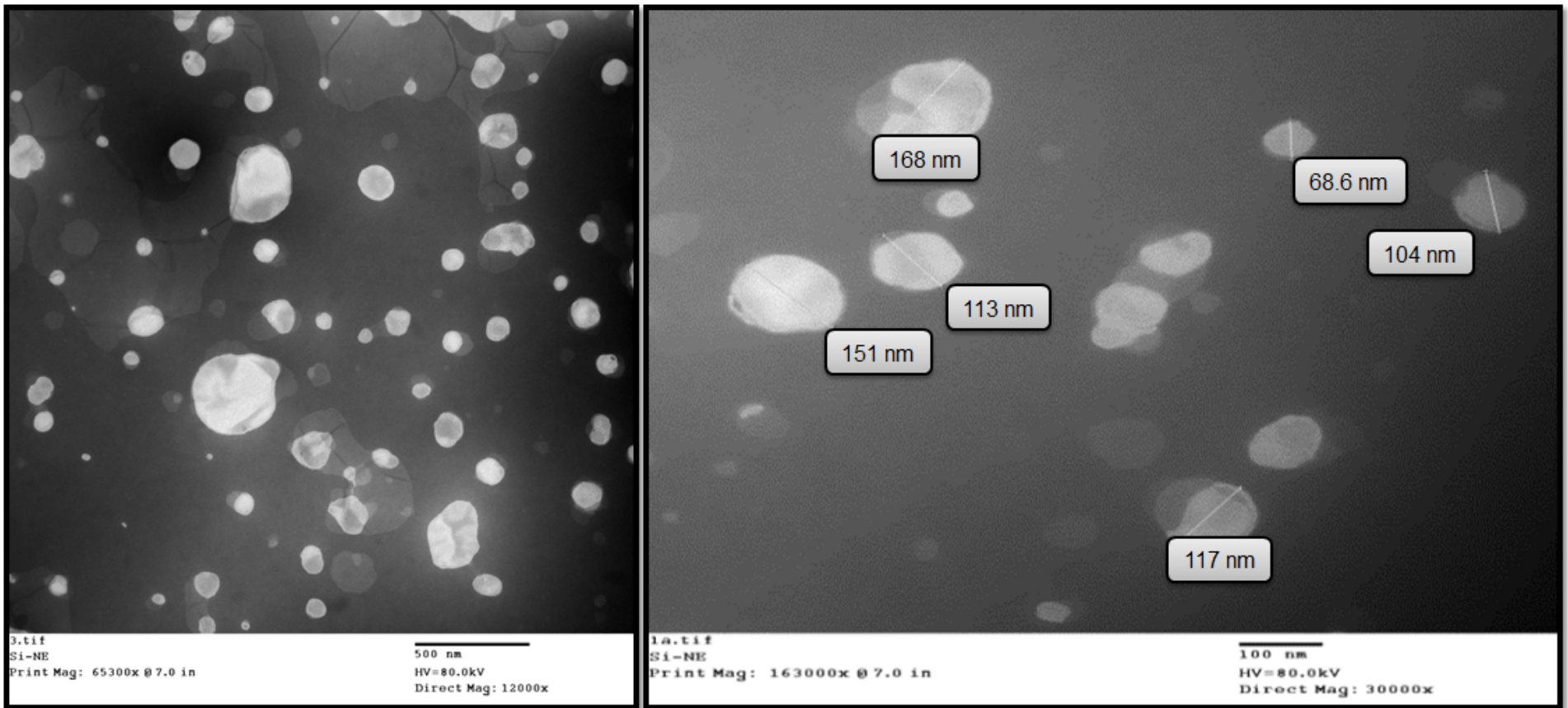
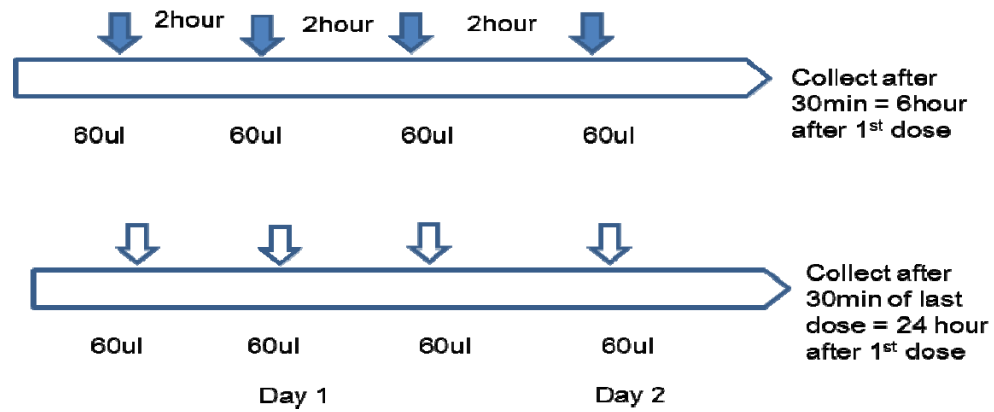


Supplementary Figure 1



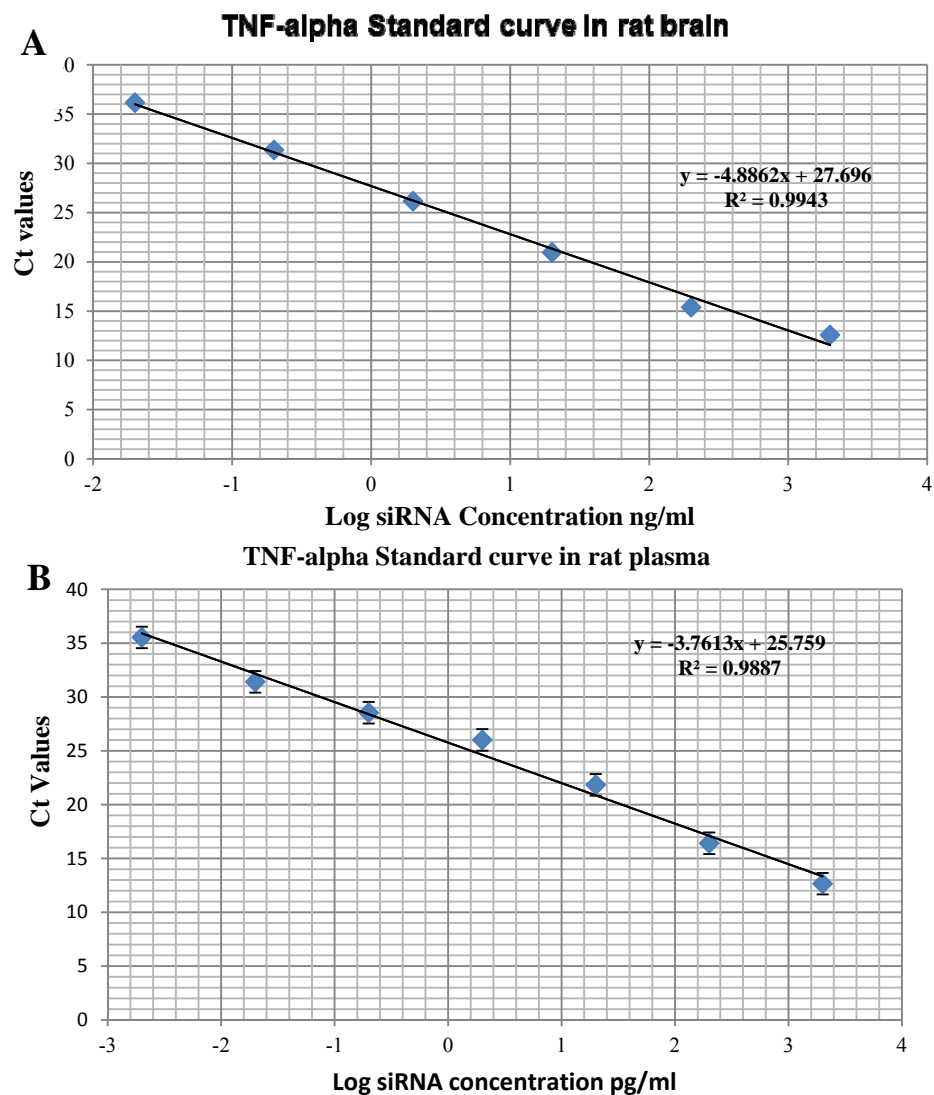
Transmission electron microscopy (TEM) image of the TNF α silencing siRNA-encapsulated nanoemulsion. Scale bar length is 100 nm.

Supplementary Figure 2



TNF α loaded nanoemulsion *in vivo* distribution study design and dosing schematic .

Supplementary Figure 3



Standard curves of TNF α siRNA prepared using stem-loop assay in brain tissue (A) and plasma (B). Ct values of standard curves ranging from 2000ng/ml to 0.02ng/ml in brain matrix and in plasma ranging from 2000ng/ml to 0.002ng/ml in plasma matrix.