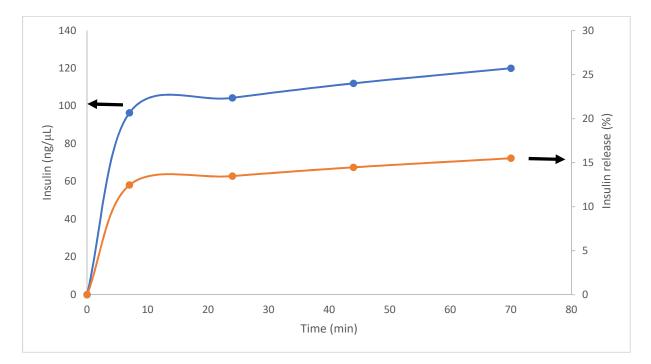


**Figure S1.** Qualitative study results obtained from MALDI-TOF spectrum to reveal insulin is degraded by pepsin when PEGylated SWCNTs are just mixed with insulin (without sonication).



**Figure S2.** Insulin release (ng/ $\mu$ L and %) by serum proteins from the designed functional dispersion with incubation time. All data are represented in the mean.