Targeted Theranostic Approach for Glioma Using Dendrimer-Based Curcumin Nanoparticle

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Supplementary materials:

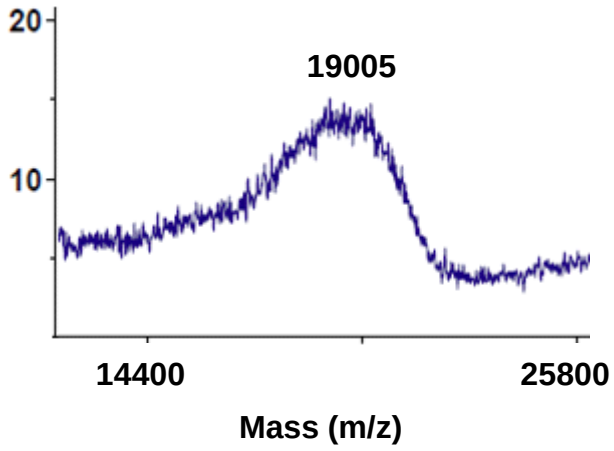

Figure S1: MALDI-TOF spectrum for molecular weight determination of **G3-(Curc)$_{24}$.** The average number of **Curc** conjugated with G3-succinamic acid dendrimer was estimated to be 24 per dendrimer.

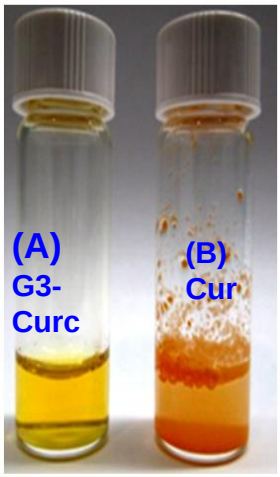

Figure S2: Solubility of **G3-(Curc)$_{24}$ (A)** and free **Curc (B)** in water.

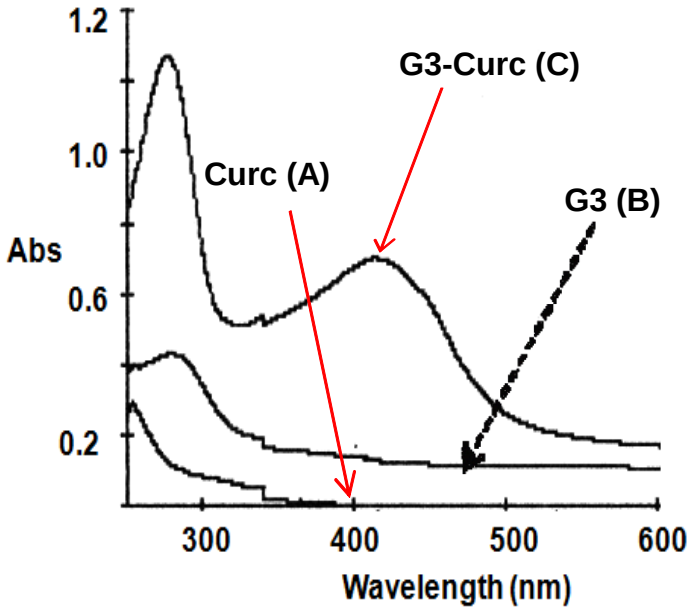

Figure S3: Absorption spectra of curcumin **Cur**c (**A**), **G3**-PAMAM (**B**) and **G3-Curc** (**C**) conjugate respectively, in water.

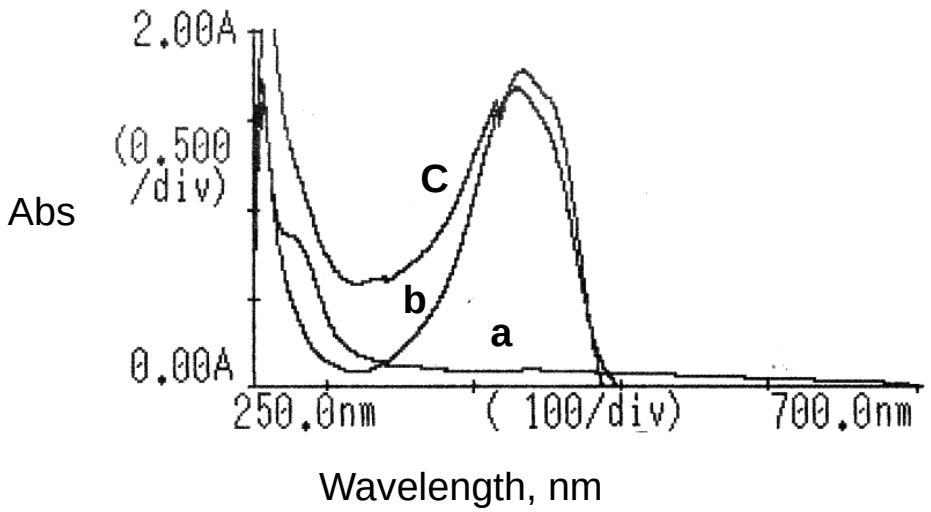

Figure S4: Absorption spectra of curcumin **G3-succunimic acid** PAMAM (**a**), **Cur**c (**b**), and **G3-Curc** (**C**) conjugate respectively, in DMSO.

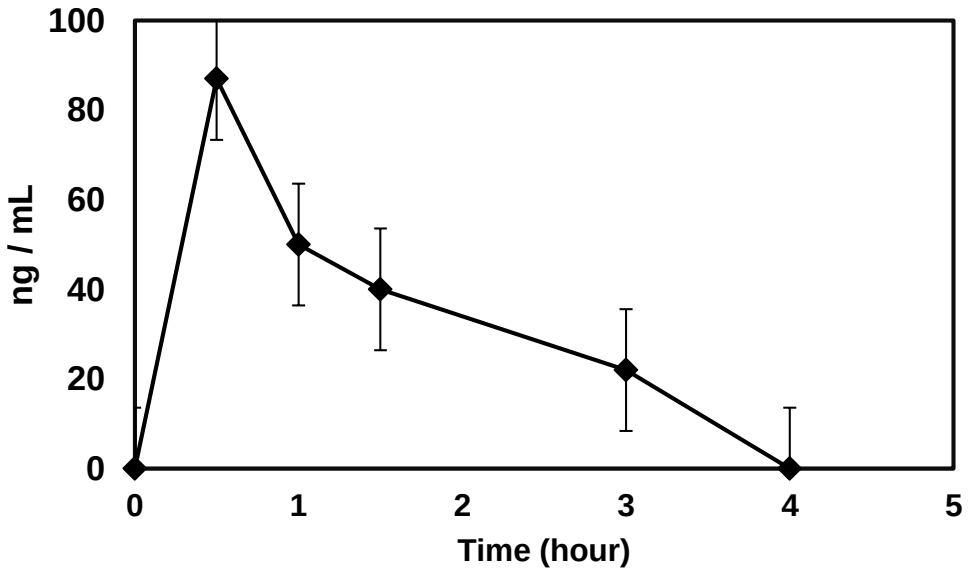

Figure S5: Bioavailability of **G3-Curc** in mice. **G3-Curc** (100 mg/kg) was administered to mice by intravenously. The mice were sacrificed 0.5, 1, 1.5, 3 and 4 hours (n=3/time point and number of experiment, n=1) later by euthanasia, the blood was collected by heart puncture, and the serum was separated by centrifugation at 14000 rpm for 2 min. HPLC analysis of serum are depicted in the figure.