



Article

Gold Nanoclusters Display Low Immunogenic Effect in Microglia Cells

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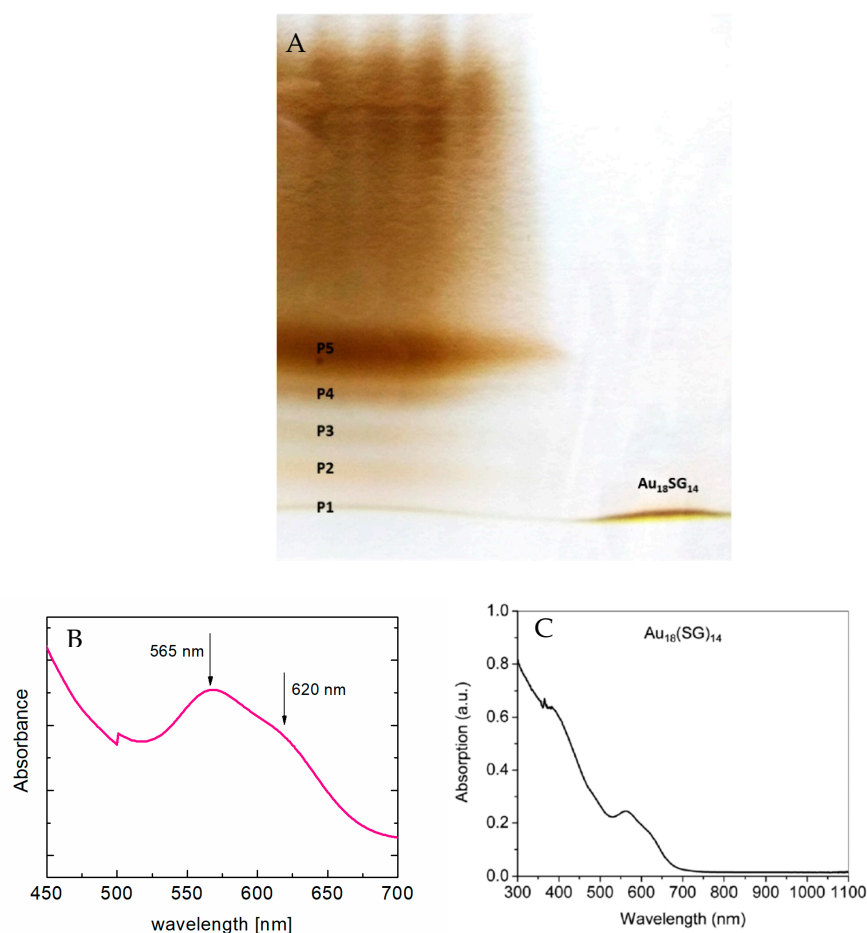


Figure S1. (A) PAGE electrophoresis of AuSG nanoclusters of various sizes, synthesized with a protocol [1] and AuSG synthesized with a protocol [2], identified as $Au_{18}(SG)_{14}$. (B) Absorption spectrum of Au18 nanoclusters, (C) absorption spectrum of $Au_{18}(SG)_{14}$ from publication [3]. Comparison of PAGE with [1] and comparison of the spectrum B with [3] and references therein, allows to assign nanocluster sizes in fraction P1 as a mixture of Au10–Au18 and the second sample as $Au_{18}SG_{14}$.

References

1. Negishi, Y.; Nobusada, K.; Tsukuda, T. Glutathione-protected gold clusters revisited: Bridging the gap between gold(I)-thiolate complexes and thiolate-protected gold nanocrystals. *J. Am. Chem. Soc.* **2005**, *127*, 5261–5270, doi:10.1021/ja042218h.
2. Ghosh, A.; Udayabhaskararao, T.; Pradeep, T. One-step route to luminescent Au 18SG 14 in the condensed phase and its closed shell molecular ions in the gas phase. *J. Phys. Chem. Lett.* **2012**, *3*, 1997–2002, 2012, doi:10.1021/jz3007436.
3. Jin, R. Atomically precise metal nanoclusters: Stable sizes and optical properties. *Nanoscale* **2015**, *7*, doi:1549–1565, 2015, doi:10.1039/c4nr05794e.