Electronic Supporting Information

Mesoporous metal oxide nanoparticles for selective enrichment of phosphopeptides from complex sample matrix

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| | phosphoproteins | phosphopeptides | phosphosites |
|-------------------------|-----------------|-----------------|--------------|
| P _{0.5} -Ti-40 | 1348 | 3035 | 3437 |
| P _{0.5} -Ti-50 | 1338 | 3035 | 3448 |

TableS1: The numbers of phosphoproteins, phosphopeptides and phosphosites enriched by $P_{0.5}$ -Ti-40 and $P_{0.5}$ -Ti-50, when glycolic acid was added in the loading buffer.



Fig. S1: When 4 pmol of β -case in digest was used, all the nanoparticles can enrich phosphopeptides.



Fig. S2: When 40 fmol β -casein digest was used ,P_{0.5}-Ti-40 and P_{0.5}-Ti-50 can still enrich the phosphopeptide.