

# **Size effect of colloidal selenium particles on inhibition of LPS-induced nitric oxide production**

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## **Abstract**

We have studied the size-dependent inhibition capabilities of colloidal selenium (Se) particles on lipopolysaccharide (LPS)-induced nitric oxide (NO) production in RAW 264.7 cells. Four particle sizes of the nano-Se, ranging from 45 ~ 220 nm in diameter, were examined. All of them, unlike their bulk material, show clear capabilities of inhibition and a trend dependent on the particles size. The inhibition becomes more potent as the particle size increases. It indicates that pursuing the reduction of colloidal sizes into nanoscale is not favoured in this biological system.

Revue / Journal Title