

# **Nitric oxide-independent lipid metabolism in RAW 264.7 macrophages loaded with oleic acid**

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摘要

## **Abstract**

The role of nitric oxide (NO) in the regulation of lipogenesis and lipolysis in RAW 264.7 macrophages loaded with oleic acid (OA) was investigated in this paper. Magnolol stimulated full lipolysis without affecting NO levels. Both inhibition and elevation of NO production in OA-loaded macrophages did not induce lipolysis. Besides, lipopolysaccharide (LPS)-induced increased accumulation of lipid droplets was not reduced by down-regulation of NO levels. Moreover, incubation of macrophages with sodium nitroprusside (SNP), an NO donor, stimulated significant NO production without altering the lipid droplet accumulation. All these results clearly demonstrate that NO is not involved in the modulation of lipid metabolism in macrophages loaded with OA.