



Effects of quercetin on adipogenesis-related transcription factors in differentiated adipocytes from normal samples stimulated with either cigarette smoke extract (CSE) or H₂O₂. Cells from normal patients were treated with quercetin (100 μ M) for the first three days of a 10-day period of adipogenesis in adipogenic medium containing 10 μ M rosiglitazone alone or combined with 2% CSE or 10 μ M H₂O₂. After 10 days, the cell lysates were subjected to western blotting analysis for PPAR γ , C/EBP α and C/EBP β protein expression (A). The experiments were performed in triplicate with cells from three different normal donors. Quantification of PPAR γ , C/EBP α and C/EBP β by densitometry, normalized to the β -actin levels in the same samples, is shown (B). The data in the columns are the mean relative density ratios \pm SD of three experiments in cells from three different normal samples. The assays were performed at least three times in triplicate with cells from three different normal samples, and expressed as the differences between the quercetin-treated and -untreated cells (*P < 0.05) in each control, CSE or H₂O₂ stimulated condition.

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