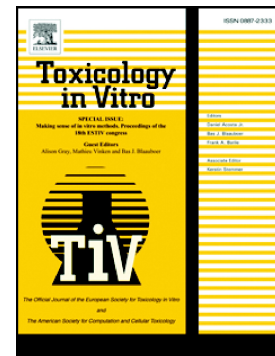


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The ROS-mediated activation of IL-6/STAT3 signaling pathway is involved in the 27-hydroxycholesterol-induced cellular senescence in nerve cells

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**Abbreviations**

27HC, 27-hydroxycholesterol; SERM, selective estrogen receptor modulator; E<sub>2</sub>, 17 $\beta$ -estradiol; ROS, Reactive oxygen species; STAT3, Signal transducer and activator of transcription 3; NAC, N-acetylcysteine; SA- $\beta$ -Gal, Senescence-associated  $\beta$ -galactosidase;

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