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Abbreviations used in this paper: OP, Organophosphorus; AChE, acetyl-cholinesterase; ROS, reactive oxygen species; COX, cyclooxygenase; iNOS, inducible nitric oxide synthase; BALF, a bronchoalveolar lavage fluid; HO, heme oxygenase; NF-κB, nuclear factor-kappa B; MAP kinase, mitogen-activated protein kinase; ERK, extracellular signal-regulated kinase; JNK, c-Jun N-terminal kinase