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Bardoxolone

National Cancer Institute

Source

National Cancer Institute. *Bardoxolone*. NCI Thesaurus. Code C48382.

A synthetic triterpenoid compound with potential antineoplastic and anti-inflammatory activities. Bardoxolone blocks the synthesis of inducible nitric oxide synthase (iNOS) and inducible cyclooxygenase (COX-2), two enzymes involved in inflammation and carcinogenesis. This agent also inhibits the interleukin-1 (IL-1)-induced expression of the pro-inflammatory proteins matrix metalloproteinase-1 (MMP-1) and matrix metalloproteinase-13 (MMP-13) and the expression of Bcl-3; Bcl-3 is an IL-1-responsive gene that preferentially contributes to MMP-1 gene expression.