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Sulfinpyrazone

National Cancer Institute

Source

National Cancer Institute. *Sulfinpyrazone*. NCI Thesaurus. Code C47739.

A phenylbutazone derivative with uricosuric and antithrombotic properties. Sulfinpyrazone competitively inhibits reabsorption of urate at the proximal renal tubule in the kidney. This agent acts on the organic anion transport exchanger, thereby increasing uric acid excretion and decreasing serum uric acid levels resulting in the prevention of urate deposition. Sulfinpyrazone also blocks tubular excretion of various acidic drugs, resulting in increased serum concentration of the drugs. In addition, sulfinpyrazone and its active metabolite inhibit the synthesis of thromboxane A₂, by competitively inhibiting the activity of cyclooxygenase, thereby preventing platelet aggregation through restoration of platelet survival time to normal, and decreasing platelet adhesiveness to subendothelial cells.