

[Open Peer Review on Qeios](#)

# Fludrocortisone Acetate

National Cancer Institute

## Source

National Cancer Institute. *Fludrocortisone Acetate*. NCI Thesaurus. Code C1103.

The acetate salt of a synthetic fluorinated corticosteroid with antiinflammatory and antiallergic activities. As a glucocorticoid-receptor agonist, fludrocortisone binds to cytoplasmic receptors, translocates to the nucleus, and subsequently initiates the transcription of glucocorticoid-responsive genes such as lipocortins to inhibit phospholipase A2 (PLA2). Inhibition of PLA2 activity prevents the release of arachidonic acid, a precursor of eicosanoids such as prostaglandins and leukotrienes; eicosanoids are important mediators in the pro-inflammatory response mechanism. As a mineralocorticoid-receptor agonist, this agent stimulates Na<sup>+</sup> reabsorption and water retention and K<sup>+</sup> and H<sup>+</sup> secretion in the distal tubules and collecting ducts of the kidney.