

[Open Peer Review on Qeios](#)

Hydrocortisone Acetate

National Cancer Institute

Source

National Cancer Institute. *Hydrocortisone Acetate*. NCI Thesaurus. Code C61785.

The synthetic acetate salt form of hydrocortisone, a corticosteroid with anti-inflammatory and immunosuppressive properties. Hydrocortisone acetate initially binds to the cytoplasmic glucocorticoid receptor; then the receptor-ligand complex is translocated to the nucleus where it initiates the transcription of genes encoding for anti-inflammatory mediators, such as cytokines and lipocortins. Lipocortins inhibit phospholipase A2, thereby blocking the release of arachidonic acid from membrane phospholipids and preventing the synthesis of prostaglandins and leukotrienes.