

[Open Peer Review on Qeios](#)

Difluprednate

National Cancer Institute

Source

National Cancer Institute. *Difluprednate*. NCI Thesaurus. Code C80259.

A topical corticosteroid and prednisolone acetate derivative, with anti-inflammatory activity. Upon instillation into the eye, difluprednate binds to and activates the glucocorticoid receptor (GR). The receptor-ligand complex binds to promoter regions of certain genes and initiates RNA transcription. This results in an induction of synthesis of phospholipase A2 inhibitory proteins, thereby inhibiting the synthesis of arachidonic acid and preventing the synthesis of certain inflammatory mediators, such as prostaglandins and leukotrienes. This reduces ocular inflammation and pain.