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Rimexolone

National Cancer Institute

Source

National Cancer Institute. *Rimexolone*. NCI Thesaurus. Code C47705.

A derivative of prednisolone, a synthetic glucocorticoid with anti-inflammatory and immunosuppressive property. Upon binding to the cytosolic glucocorticoid receptor and cell entry, rimexolone activates specific glucocorticoid response elements, resulting in altered gene expression. These include induction of synthesis of anti-inflammatory protein I κ B- α and inhibition of synthesis of nuclear factor κ B (NF κ B). As a result, pro-inflammatory cytokine production such as interleukin-1 (IL-1), IL-2 and IL-6 is down-regulated and cytotoxic T-lymphocyte activation inhibited. Therefore, an overall reduction in chronic inflammation and autoimmune reactions may be achieved.