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# Fluticasone Propionate

National Cancer Institute

## Source

National Cancer Institute. *Fluticasone Propionate*. NCI Thesaurus. Code C29061.

The propionate salt form of fluticasone, a synthetic trifluorinated glucocorticoid receptor agonist with antiallergic, antiinflammatory and antipruritic effects. Binding and activation of the glucocorticoid receptor results in the activation of lipocortin that in turn inhibits cytosolic phospholipase A2, which triggers cascade of reactions involved in synthesis of inflammatory mediators, such as prostaglandins and leukotrienes. Secondly, mitogen-activated protein kinase (MAPK) phosphatase 1 is induced, thereby leads to dephosphorylation and inactivation of Jun N-terminal kinase directly inhibiting c-Jun mediated transcription. Finally, transcriptional activity of nuclear factor (NF)-kappa-B is blocked, thereby inhibits the transcription of cyclooxygenase 2, which is essential for prostaglandin production.