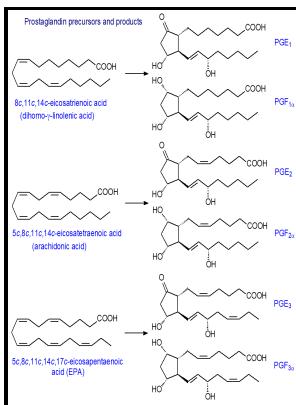


Prostaglandin system - endoperoxides, prostacyclin, and thromboxanes

Plenum published in cooperation with NATO Scientific Affairs Division - Prostaglandins; their biological and pharmacological role



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Discovery of Prostaglandins

It is also a smooth muscle cell mitogen and is the only eicosanoid that has convincingly been shown to have this effect. Analysis of the secondary efficacy variables revealed a consistently greater response in the ginger extract group compared with the control group in the following mean values: reduction in knee pain on standing 24. Semin Perinatol 4: 45, 1980 Mitchell MD: Prostaglandins during pregnancy and the perinatal period.

Biochemical Aspects of Prostaglandins and Thromboxanes

This enzyme selectively oxidizes the hydroxyl group at carbon 15 into a 15-keto moiety. In some mares, prostaglandins are more effective at evacuation of uterine fluid than oxytocin. PGE 2 a vasodilator in the nonpregnant animal produced dose-related reductions in uterine blood flow in pregnant sheep but after administration to the fetus caused uterine vasodilation.

The Prostaglandin System

Biochem J 166: 205, 1977 Sawada M, Carlson J: Association of lipid peroxidation during luteal regression in the rat and natural aging in the rotifer. At high concentrations, PGE 2 and PGF 2 α interact with the DP receptor; similarly, PGF 2 α will activate the EP receptor, whereas PGD 2 and PGE 2 will interact with the FP receptor at high concentrations.

Triene prostaglandins: Prostacyclin and thromboxane biosynthesis and unique biological properties

Raisz, in , 2008 Prostaglandins PGs and other eicosanoids have important physiologic and pathologic roles in skeletal metabolism. Furthermore, the period of time preceding the onset of contractions is characterized by plasma PGF 2 α levels that are equivalent to those of nonpregnant women. This may explain the diuretic action of the latter drugs, since PGE 2 produces diuresis through a direct action in the kidney.

Prostaglandins, thromboxanes and Leukotrienes

Toxicological effects stemming from use of or exposure to prostaglandins have been varied in the literature, and most are acute; few serious chronic effects have been demonstrated. .

The prostaglandin system : endoperoxides, prostacyclin, and thromboxanes : [proceedings] / edited by...

Gravidin may be a member of the annexin family of calcium-phospholipid-binding proteins that inhibit phospholipase activity indirectly by binding to the substrate phospholipid. Currently, three classes of prostaglandins are recognized, and these are categorized on the basis of the number of double bonds present within the prostaglandin molecule and on the fatty acid from which they are derived.

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Subsequent studies involving the direct injection of PGF 2 α into the human corpus luteum induced progesterone withdrawal, the nadir of which coincided with the onset of early menses. The type of prostaglandin formed appears to be tissue specific.

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