PRODUCT INFORMATION

Megestryl Acetate
Item No. 21749

CAS Registry No.: 595-33-5
Formal Name: 17-(acetyloxy)-6-methyl-pregna-4,6-diene-3,20-dione
Synonyms: Megestrol Acetate, NSC 71423, SC-10363
MF: C_{24}H_{32}O_4
FW: 384.5
Purity: ≥98%
UV/Vis.: λ_{max}: 288 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥2 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Megestryl acetate is supplied as a crystalline solid. A stock solution may be made by dissolving the megestryl acetate in the solvent of choice. Megestryl acetate is soluble in organic solvents such as ethanol and DMSO, which should be purged with an inert gas.

Description

Megestryl acetate is a synthetic progestogen and derivative of progesterone (Item No. 15876) originally developed as a contraceptive. It binds with high relative affinity to the progesterone, androgen, and glucocorticoid receptors in mammary cancer cells. It increases neuropeptide Y in the rat hypothalamus and inhibits calcium channel currents in the rat hypothalamus. Megestryl acetate decreases cytokine and serotonin production in patient-derived peripheral blood mononuclear cells (PBMCs). In rats, it increases food and water intake when administered at a dose of 50 mg/kg per day. Formulations containing megestryl acetate have been used in the treatment of endometriosis, hormone-related cancers, and as an appetite stimulant for cancer patients with anorexia and cachexia.

References