

Certificate of Analysis

www.tocris.com

Product Name: Megestrol Acetate

Catalog No.: 6285

Batch No.: 1

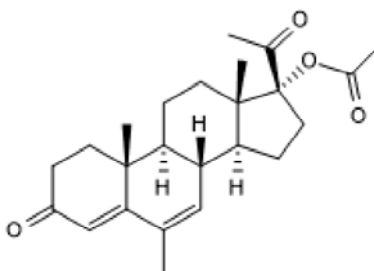
CAS Number: 595-33-5

EC Number: 209-864-5

IUPAC Name: 17-(Acetyloxy)-6-methylpregna-4,6-diene-3,20-dione

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₄H₃₂O₄
Batch Molecular Weight: 384.51
Physical Appearance: White solid
Solubility: DMSO to 50 mM
ethanol to 20 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.5% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	74.97	8.39	
Found	74.73	8.43	

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956

Product Name: Megestrol Acetate

Catalog No.: 6285

Batch No.: 1

CAS Number: 595-33-5

EC Number: 209-864-5

IUPAC Name: 17-(Acetyloxy)-6-methylpregna-4,6-diene-3,20-dione

Description:

Synthetic progesterone analog. Dose-dependently inhibits growth of HepG2 cells ($IC_{50} = 260 \mu M$) *in vitro* and *in vivo* and reduces tumor volume. High dosages improve weight gain in tumor-bearing nude mice. Orally bioavailable.

Physical and Chemical Properties:

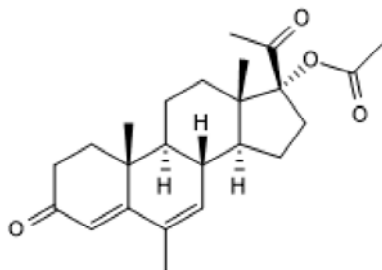
Batch Molecular Formula: $C_{24}H_{32}O_4$

Batch Molecular Weight: 384.51

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Zhang and Chow (2004) The effect of megestrol acetate on growth of HepG2 cells *in vitro* and *in vivo*. Clin.Cancer.Res. **10** 5226. PMID: 15297426.

Tchekmedyan et al (1992) Megestrol acetate in cancer anorexia and weight loss. Cancer. **69** 1268. PMID: 1739926.

Storage: Store at RT

Solubility & Usage Info:

DMSO to 50 mM

ethanol to 20 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956