

Certificate of Analysis

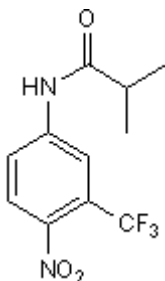
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Product Name: Flutamide
CAS Number: 13311-84-7
IUPAC Name: 2-Methyl-N-(4-nitro-3-[trifluoromethyl]phenyl)propanamide

Catalog No.: 4094
Batch No.: 2
EC Number: 236-341-9

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₁H₁₁F₃N₂O₃
Batch Molecular Weight: 276.21
Physical Appearance: Pale yellow solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	47.83	4.01	10.14
Found	47.52	3.89	10.05

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

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Description:

Non-steroidal antiandrogen; competitive antagonist of the androgen receptor. Blocks the biological activity of testosterone (Cat. No. 2822) in vivo.

Physical and Chemical Properties:

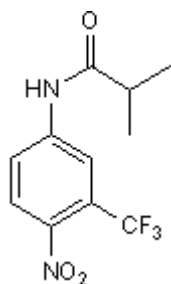
Batch Molecular Formula: C₁₁H₁₁F₃N₂O₃

Batch Molecular Weight: 276.21

Physical Appearance: Pale yellow solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 100 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.

References:

Foster et al (2011) Drug safety is a barrier to the discovery and development of new androgen receptor antagonists. *Prostate* **71** 480. PMID: 20878947.

Butcher et al (2007) Induction of human arylamine *N*-acetyltransferase type I by androgens in human prostate cancer cells. *Cancer Res.* **67** 85. PMID: 17210686.

Sufrin and Coffey (1976) Flutamide. Mechanism of action of a new nonsteroidal antiandrogen. *Invest.Urol.* **13** 429. PMID: 1270239.

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