



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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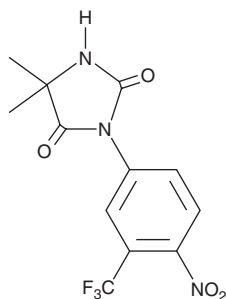
# PRODUCT INFORMATION



## Nilutamide

Item No. 23953

**CAS Registry No.:** 63612-50-0  
**Formal Name:** 5,5-dimethyl-3-[4-nitro-3-(trifluoromethyl)phenyl]-2,4-imidazolidinedione  
**Synonym:** RU-23908  
**MF:** C<sub>12</sub>H<sub>10</sub>F<sub>3</sub>N<sub>3</sub>O<sub>4</sub>  
**FW:** 317.2  
**Purity:** ≥98%  
**UV/Vis.:** λ<sub>max</sub>: 262 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

Nilutamide is supplied as a crystalline solid. A stock solution may be made by dissolving the nilutamide in the solvent of choice. Nilutamide is soluble in organic solvents such as ethanol and DMSO, which should be purged with an inert gas. The solubility of nilutamide in these solvents is approximately 25 mM. Nilutamide is also slightly soluble in chloroform and methanol.

### Description

Nilutamide is a non-steroidal antiandrogen that is an antagonist of the androgen receptor.<sup>1</sup> It reverses testosterone-induced increases in cell proliferation with an IC<sub>50</sub> value of 412 nM in mouse mammary carcinoma cells *in vitro*.<sup>2</sup> It has antiandrogenic activity in both intact and castrated rats, inhibiting testosterone propionate-induced prostate growth when administered at a dose of 2.5 mg/kg.<sup>3</sup> Formulations containing nilutamide have been used in combination with surgical castration in the treatment of metastatic prostate cancer.

### References

1. Singh, S.M., Gauthier, S., and Labrie, F. Androgen receptor antagonists (antiandrogens): Structure-activity relationships. *Curr. Med. Chem.* **7**(2), 211-247 (2000).
2. Simard, J., Singh, S.M., and Labrie, F. Comparison of *in vitro* effects of the pure antiandrogens OH-flutamide, Casodex, and nilutamide on androgen-sensitive parameters. *Urology* **49**(4), 580-586 (1997).
3. Wakeling, A.E., Furr, B.J.A., Glen, A.T., *et al.* Receptor binding and biological activity of steroidal and nonsteroidal antiandrogens. *J. Steroid Biochem.* **15**, 355-359 (1981).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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