



SZABO SCANDIC

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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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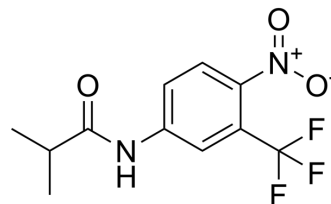
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Flutamide (Standard)

Cat. No.:	HY-B0022R
CAS No.:	13311-84-7
Molecular Formula:	C ₁₁ H ₁₁ F ₃ N ₂ O ₃
Molecular Weight:	276.21
Target:	Androgen Receptor
Pathway:	Vitamin D Related/Nuclear Receptor
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (362.04 mM; Need ultrasonic)
 H₂O : < 0.1 mg/mL (insoluble)

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mg	5 mg	10 mg	
	1 mM	3.6204 mL	18.1022 mL	36.2043 mL	
	5 mM	0.7241 mL	3.6204 mL	7.2409 mL	
	10 mM	0.3620 mL	1.8102 mL	3.6204 mL	

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Flutamide (Standard) is the analytical standard of Flutamide. This product is intended for research and analytical applications. Flutamide is an Androgen Receptor antagonist with Ki=55 nM. Flutamide inhibits prostate cancer progression and has synergistic effects with Docetaxel (HY-B0011). Flutamide also has the potential to protect against hyperthermia-induced multiple organ dysfunction syndrome^{[1][2][3][4][5][6][7]}.

REFERENCES

- [1]. Simard J, et al. Characteristics of interaction of the antiandrogen flutamide with the androgen receptor in various target tissues. *Mol Cell Endocrinol.* 1986 Mar;44(3):261-70.
- [2]. Luthy IA, et al. Androgenic activity of synthetic progestins and spironolactone in androgen-sensitive mouse mammary carcinoma (Shionogi) cells in culture. *J Steroid Biochem.* 1988 Nov;31(5):845-52.
- [3]. Crawford ED, et al. A controlled trial of leuprolide with and without flutamide in prostatic carcinoma. *N Engl J Med.* 1989 Aug 17;321(7):419-24.
- [4]. Rahimnia R, et al. The effect of Ganoderma lucidum polysaccharide extract on sensitizing prostate cancer cells to flutamide and docetaxel: an in vitro study. *Sci Rep.*

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[5]. Lin CY, et al. Flutamide, an androgen receptor antagonist, improves heatstroke outcomes in mice. Eur J Pharmacol. 2012 Aug 5;688(1-3):62-7.

[6]. Marchetti B, et al. Characteristics of flutamide action on prostatic and testicular functions in the rat. J Steroid Biochem. 1988 Jun;29(6):691-8.

Caution: Product has not been fully validated for medical applications. For research use only.

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