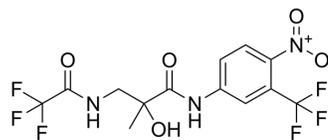


Topilutamide

Cat. No.:	HY-19470		
CAS No.:	260980-89-0		
Molecular Formula:	C ₁₃ H ₁₁ F ₆ N ₃ O ₅		
Molecular Weight:	403.23		
Target:	Androgen Receptor		
Pathway:	Vitamin D Related/Nuclear Receptor		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (248.00 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.4800 mL	12.3999 mL	24.7997 mL
		5 mM	0.4960 mL	2.4800 mL	4.9599 mL
10 mM		0.2480 mL	1.2400 mL	2.4800 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (6.20 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.20 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.20 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	Topilutamide is a topical nonsteroidal antiandrogen (NSAA).
In Vivo	<p>Prostate cancer is the most common cancer and one of the leading causes of cancer deaths in men. One of the commonly used approaches to treat metastatic prostate cancer is via first-generation nonsteroidal anti-androgens (NSAAs), namely Flutamide, Nilutamide, Bicalutamide and Topilutamide^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

CUSTOMER VALIDATION

- BMC Cancer. 2023 Nov 13;23(1):1102.

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REFERENCES

- [1]. Suresh PS, et al. Review of HPLC and LC-MS/MS assays for the determination of various nonsteroidal anti-androgens used in the treatment of prostate cancer. Biomed Chromatogr. 2017 Jun 21.
- [2]. Sovak M, Seligson AL, Kucerova R, Bienova M, Hajduch M, Bucek M. Fluridil, a rationally designed topical agent for androgenetic alopecia: first clinical experience [published correction appears in Dermatol Surg 2002 Oct;28(8):following 970]. Dermatol Surg. 2002;28(8):678-685.
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Caution: Product has not been fully validated for medical applications. For research use only.

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