

Product Name: Bicalutamide Revision Date: 01/10/2021

Product Data Sheet

Bicalutamide

A5065 Cat. No.:

90357-06-5 CAS No.:

Formula: C18H14F4N2O4S

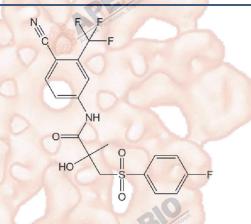
M.Wt: 430.37

Synonyms:

Endocrinology and Hormones Target:

Pathway: Androgen Receptor

Storage: Store at -20°C



Solvent & Solubility

≥42.89 mg/mL in DMSO; insoluble in H2O; ≥4.3 mg/mL in EtOH with ultrasonic

Mass Solvent 1mg 5mg 10mg Preparing Concentration In Vitro Stock Solutions 1 mM 2.3236 mL 11.6179 mL 23.2358 mL 5 mM 0.4647 mL 2.3236 mL 4.6472 mL 10 mM 0.2324 mL 1.1618 mL 2.3236 mL

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

Biological Activity

Shortsummary	Androgen receptor antago	onist
IC ₅₀ & Target		EIQ.
In Vitro	Cell Viability Assay	Control of the state of the sta
	Cell Line:	VCaP or Hep-G2 cell lines
	Preparation method:	The solubility of this compound in DMSO is >21.5 mg/ml. General tips for
		obtaining a higher concentration: Please warm the tube at 37°C for 10 minutes
		and/or shake it in the ultrasonic bath for a while. Stock solution can be stored
		below -20°C for several months.
	Reacting conditions:	10-11 -10-4 M
		4

	Applications:	Bicalutamide was found to be able to inhibit the growth in prostate cancer cells
		(VCaP cells) with overexpressed androgen receptor through directly binding to
		AR then mediating androgen-mediated gene transcription. Moreover,
		bicalutamide could impair the DNA binding and nuclear localization in prostate
	Esparation Introduction	cancer cells. In HepG2 cells, bicalutamide could also significantly inhibit
		R1881-induced VP16-AR–mediated transcription with an IC50 value of 0.2 μM.
	Animal experiment	A Total Total
	Animal models:	Male immunodeficient mice harboring LNCaP/AR-luc xenograft tumors
	Dosage form:	10 mg/kg/day, oral
	Applications:	In a clinically valid murine xenograft model of human CRPC, bicalutamide
In Vivo		showed greater efficacy than MDV3100. Maximal therapeutic response in this
		model was achieved at 30 mg/kg/d of bicalutamide, whereas the same
		response required 100 mg/kg/d of MDV3100 and higher steady-state plasma
	40.	concentrations.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may
	Preston, Expa	slightly differ with the theoretical value. This is caused by an experimental
	Reliefe of the second	system error and it is normal.

Product Citations

1. Bogner J, Zolghadr K, et al. "The fluorescent two-hybrid assay for live-cell profiling of androgen receptor modulators. "JSteroid Biochem Mol Biol. 2016 May 9.PMID:27174722

See more customer validations on www.apexbt.com.

References

[1] Clegg NJ, Wongvipat J, Joseph JD, Tran C, Ouk S, Dilhas A, Chen Y, Grillot K, Bischoff ED, Cai L et al: ARN-509: a novel antiandrogen for prostate cancer treatment. Cancer Res 2012, 72(6):1494-1503.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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