(Rac)-Acolbifene

MedChemExpress

Cat. No.:	HY-16023B		
CAS No.:	151533-34-5		
Molecular Formula:	C ₂₉ H ₃₁ NO ₄		
Molecular Weight:	457.56		
Target:	Estrogen Re	eceptor/E	RR
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

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SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg		
	Preparing Stock Solutions	1 mM	2.1855 mL	10.9275 mL	21.8551 mL		
		5 mM	0.4371 mL	2.1855 mL	4.3710 mL		
		10 mM	0.2186 mL	1.0928 mL	2.1855 mL		
	Please refer to the so	Please refer to the solubility information to select the appropriate solvent.					
In Vivo		1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (5.46 mM); Clear solution					
		vent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) 5 mg/mL (5.46 mM); Suspended solution; Need ultrasonic					

BIOLOGICAL ACTIVITY		
Description	(Rac)-Acolbifene (EM-343; (Rac)-EM-652) is the racemic form of EM652 (estrogen receptor antagonist), has anti-estrogenic and estrogenic activities. (Rac)-Acolbifene (EM-343; (Rac)-EM-652) contains a piperidine ring, shows good pharmacological profile,relative binding affinity (RBA)=380 ^[1] .	
In Vitro	(Rac)-Acolbifene (EM-343; (Rac)-EM-652) shows a inhibitory effect in T-47D cells with an IC ₅₀ value of 0.110 nM ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay ^[1] Cell Line: T-47D cells	

Product Data Sheet

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	Concentration:	0.110 nM		
	Incubation Time:	72 hours		
	Result:	Inhibited T-47D cells growth.		
In Vivo		adminstration; 7.5 nM, 75 nM; 9 days; once daily) shows a good pharmacological profile in nows 63% and 84% antiuterotrophic inhibitions at the 7.5 and 75 nM doses, respectively (PK study,		
	MCE has not independe	MCE has not independently confirmed the accuracy of these methods. They are for reference only.		

REFERENCES

[1]. Gauthier S1,et al.Synthesis and structure-activity relationships of analogs of EM-652 (acolbifene), a pure selective estrogen receptor modulator. Study of nitrogen substitution. J Enzyme Inhib Med Chem. 2005 Apr;20(2):165-77.

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

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