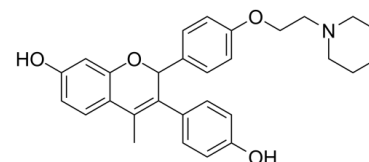


Data Sheet

Product Name:	(Rac)-Acolbifene
Cat. No.:	CS-0022200
CAS No.:	151533-34-5
Molecular Formula:	C ₂₉ H ₃₁ NO ₄
Molecular Weight:	457.56
Target:	Estrogen Receptor/ERR
Pathway:	Others
Solubility:	DMSO : 100 mg/mL (218.55 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

(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 an inhibitory effect in T-47D cells with an IC₅₀ value of 0.110 nM^[1].

In Vivo: (Rac)-Acolbifene (orally administration; 7.5 nM, 75 nM; 9 days; once daily) shows a good pharmacological profile in ovariectomized mice, shows 63% and 84% antiuterotrophic inhibitions at the 7.5 and 75 nM doses, respectively (PK study, ovariectomized mice)^[1].

References:

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

CAIndexNames:

2H-1-Benzopyran-7-ol, 3-(4-hydroxyphenyl)-4-methyl-2-[4-[2-(1-piperidinyl)ethoxy]phenyl]-

SMILES:

OC1=CC=C2C(C)=C(C3=CC=C(O)C=C3)C(C4=CC=C(OCCN5CCCCC5)C=C4)OC2=C1

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

Tel: 732-484-9848

Fax: 888-484-5008

E-mail: sales@ChemScene.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA