Data Sheet (Cat.No.T13674)

TargetMol
A DRUG SCREENING EXPERT

Elacestrant

Chemical Properties

CAS No.:	722533-56-4
Formula:	C30H38N2O2
Molecular Weight:	458.63
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Elacestrant with IC50s of 48 and 870 nM for ERα and ERβ, respectively.Elacestrant is an orally available selective estrogen receptor degrader .
Targets(IC_{50})	ERα: 48 nM ERβ: 870 nM
In vitro	RAD1901 treatment exhibits dose-dependent inhibition of ERα expression, with an EC50 of 0.6 nM. Treatment of ER-positive MCF-7 cells with E2 results in a potent and dose-dependent increase in proliferation, with an EC50 of 4 pM. Treatment of cells with RAD1901 in the presence of 10 pM E2 resultsin a dose-dependent decrease in proliferation, with an IC50 value of 4.2 nM.RAD1901 selectively binds to and degrades the ER and is a potent antagonist of ER-positive breast cancer cell proliferation.
In vivo	RAD1901 produces a robust and profound inhibition of tumor growth in MCF-7 xenograft models. RAD1901 preserves ovariectomy-induced bone loss and preventes the uterotropic effects of E2.RAD1901-treated animals survived longer than those treated with either control or fulvestrant.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.18 mL	10.902 mL	21.804 mL
5 mM	0.436 mL	2.18 mL	4.361 mL
10 mM	0.218 mL	1.09 mL	2.18 mL
50 mM	0.044 mL	0.218 mL	0.436 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Garner F, et al. RAD1901: a novel, orally bioavailable selective estrogen receptor degrader that demonstrates antitumor activity in breast cancer xenograft models. Anticancer Drugs. 2015 Oct;26(9):948-56.

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