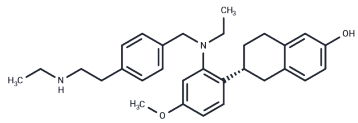
Data Sheet (Cat.No.T13674)

TargetMol
YOUR TARGET MOLECULES

Elacestrant

Chemical Properties



CAS No. : 722533-56-4

Formula: C30H38N2O2

Molecular Weight: 458.63

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

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

Solubility Information

Solubility	DMSO: 60 mg/ml (130.82 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1804 mL	10.902 mL	21.8041 mL
5 mM	0.4361 mL	2.1804 mL	4.3608 mL
10 mM	0.218 mL	1.0902 mL	2.1804 mL
50 mM	0.0436 mL	0.218 mL	0.4361 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

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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