

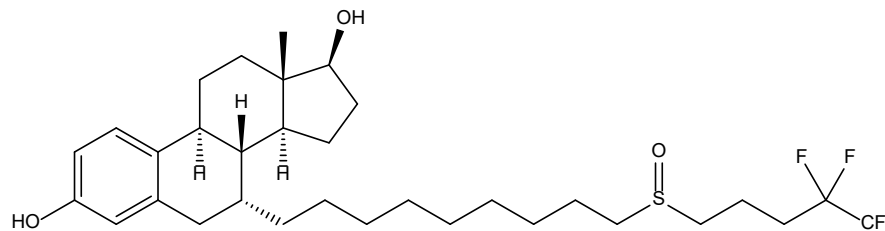
Catalog # 10-2541

Fulvestrant

129453-61-8

7 α ,17 β -[9-[(4,4,5,5,5-Pentafluoropentyl)sulfinyl]nonyl]estra-1,3,5(10)-triene-3,17-diol; ICI- 182,780; ZD-9238

Lot # X109317



Fulvestrant (129453-61-8) is a 17 β -estradiol analog that acts as an estrogen receptor (ER) antagonist and GPR30/GPER agonist with high binding affinity.^{1,2} First-in-class SERD (selective ER degrader) because it inhibits ER transcriptional activity and leads to its degradation.³ Exhibits mixed neuroprotective activity *in vivo*.⁴ Clinically useful option for some advanced breast cancers.⁵

References:

- 1) Osborne *et al.* (2004), *Fulvestrant: an oestrogen receptor antagonist with a novel mechanism of action*; Br. J. Cancer, **90** (Suppl 1) S2
- 2) Thomas *et al.* (2004), *Identity of an estrogen membrane receptor coupled to a G protein in human breast cancer cells*; Endocrinology, **146** 624
- 3) Wardley (2002), *Fulvestrant: a review of its development, pre-clinical and clinical data*; Int. J. Clin. Pract., **56** 305
- 4) Castro *et al.* (2012), *Coumestrol has neuroprotective effects before and after cerebral ischemia in female rats*; Brain Res., **1474** 82
- 5) Blackburn *et al.* (2018), *Fulvestrant for the treatment of advanced breast cancer*; Expert Rev. Anticancer Ther., **18** 619

PHYSICAL DATA

Molecular Weight:	606.77
Molecular Formula:	C ₃₂ H ₄₇ F ₅ O ₃ S
Purity:	>98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (60 mg/ml) or Ethanol (30 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 2 months.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.