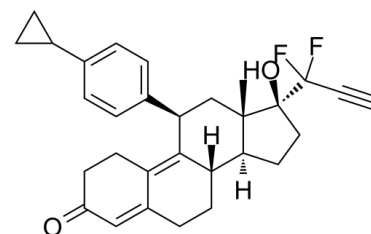


Data Sheet

Product Name:	EC330
Cat. No.:	CS-6270
CAS No.:	2016795-77-8
Molecular Formula:	C30H32F2O2
Molecular Weight:	462.57
Target:	Others
Pathway:	Others
Solubility:	DMSO : 20 mg/mL (43.24 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

EC330 is a leukemia inhibitory factor (LIF) inhibitor. **In Vitro:** EC330 shows marked specificity in MCF-7 cells overexpressing LIF versus MCF-7 cells. EC330 further shows cytoskeletal disruption and targeting cancer-associated fibroblasts (CAFs) through inhibition of alpha-SMA but not beta-tubulin^[1]. **In Vivo:** EC330 treatment (0.1, 0.5 and 2.5 mg/kg) dose dependently reduces tumor burden in ovarian (IGROV-1) and triple negative breast cancer (MDA-MB-231) cell xenografted mouse models as well as MDA-MB-231 PDX models. EC330 exhibits no reactivity towards thiol-cysteine residues, no off target binding to major receptors, kinases or ion channels. EC330 is orally bioavailable and found to be safe and tolerable in toxicity studies^[1].

References:

[1]. Nair HB, et al. Discovery and preclinical pharmacology of EC330: A first-in-class leukemia inhibitory factor (LIF) inhibitor

CAIndexNames:

Estra-4,9-dien-3-one, 11-(4-cyclopropylphenyl)-17-(1,1-difluoro-2-propyn-1-yl)-17-hydroxy-, (11β,17β)-

SMILES:

C[C@]12[C@](O)(C(F)(F)C#C)CC[C@]1([H])[C@]3([H])CCC4=CC(CCC4=C3[C@]([H])(C5=CC=C(C6CC6)C=C5)C2)=O

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

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