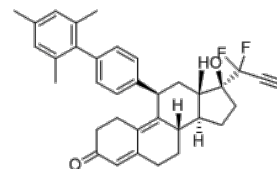


Product Name : EC359
Cat. No. : PC-35333
CAS No. : 2012591-09-0
Molecular Formula : C₃₆H₃₈F₂O₂
Molecular Weight : 571.715
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

EC359 (EC-359) is a first-in-class, orally available inhibitor of **leukemia inhibitory factor (LIF)**, blocks LIF-LIFR interaction and binds to LIFR with affinity of 81 nM in SPR assay.

EC-359 displays limited binding to classical steroid receptors.

EC-359 shows cytoskeletal disruption and targeting cancer-associated fibroblasts (CAFs) through inhibition of alpha-SMA but not beta-tubulin, reduces the STAT3 phosphorylation, mTOR and further downstream signaling cascades.

EC-359 dose dependently reduces tumor burden in both TNBC xenograft and murine syngeneic MM51 models (1 and 5 mg/kg dose).

References

Hareesh B. Nair, et al. Abstract LB-B04: Development of a first-in-class leukemia inhibitory factor (LIF)/LIFR inhibitor, EC359 for targeted therapy

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com