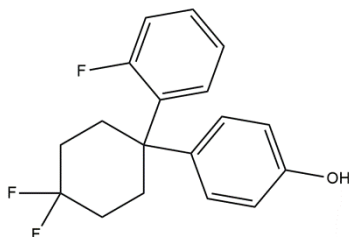


AC-186

01/20

ALTERNATE NAME: 4-[4,4-difluoro-1-(2-fluorophenyl)cyclohexyl]phenol**CATALOG #:** B2980-1 1 mg
B2980-5 5 mg**STRUCTURE:****MOLECULAR FORMULA:** C₁₈H₁₇F₃O**MOLECULAR WEIGHT:** 306.32**CAS NUMBER:** 1421854-16-1**APPEARANCE:** Solid**PURITY:** 95%**SOLUBILITY:** ~30 mg/ml in DMSO**DESCRIPTION:** AC-186 is a potent and selective estrogen receptor β (ER β) agonist. It shows EC₅₀ values of 6 and 5000 nM for ER β and ER α respectively in functional assays. Decrease in the sex steroids is associated with increased risk of Alzheimer's disease. AC-186 exhibits gender selective neuroprotection in male animals in a rat model of Parkinson's disease. AC-186 in combination with ACP-105 increases the amyloid- β degrading enzymes neprilysin and insulin-degrading enzyme, decreases amyloid- β levels in the brain as well as improves cognition in a mouse model of Alzheimer's Disease.**STORAGE TEMPERATURE:** -20°C. Store in the dark. Product is light sensitive. Protect from air. Store under desiccating conditions.**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.**REFERENCES:**

1. McFarland, K., Price, D.L., Davis, C.N. et al. AC-186, a selective nonsteroidal estrogen receptor β agonist, shows gender specific neuroprotection in a Parkinson's disease rat model. ACS Chem Neurosci. 4(9):1249-55 (2013).
2. George, S., Petit, G.H., Gouras, G.K. et al. Nonsteroidal selective androgen receptor modulators and selective estrogen receptor β agonists moderate cognitive deficits and amyloid- β levels in a mouse model of Alzheimer's disease. ACS Chem Neurosci. 4(12):1537-48 (2013).

RELATED PRODUCTS:Fulvestrant (Cat. No. B1863)
Endoxifen (Cat. No. 9614)
2-Methoxyestradiol (Cat. No. 2166)
(Z)-4-Hydroxytamoxifen (Cat. No. B1114)
Toremifene citrate (Cat. No. B1049)**DISCLAIMER:** *FOR RESEARCH USE ONLY! Not to be used on humans.*