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**Product Data Sheet**

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Product Name: AC 186  
Cat. No.: GC50091

**Chemical Properties**

Cas. No. 1421854-16-1

SMILES FC1(F)CCC(C2=C(F)C=CC=C2)(C3=CC=C(O)C=C3)CC1

Formula  $C_{18}H_{17}F_3O$  M.Wt 306.32

Solubility DMSO : 100 mg/mL (326.46 mM; Need ultrasonic) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

**Background**

Potent and selective ER $\beta$  agonist (EC<sub>50</sub> values are 6 and 5000 nM for ER $\beta$  and ER $\alpha$  respectively). Exhibits gender selective neuroprotective effects in a male rat model of Parkinson's disease. Decreases A $\beta$  levels in combination with ACP-105 in a rat model of Alzheimer's disease.

George et al (2013) Nonsteroidal selective androgen receptor modulators and selective estrogen receptor  $\beta$  agonists moderate cognitive deficits and amyloid- $\beta$  levels in a mouse model of Alzheimer's disease. ACS Chem.Neurosci. 4 1537 PMID:24020966  
|McFarland et al (2013) AC-186, a selective nonsteroidal estrogen receptor  $\beta$  agonist, shows gender specific neuroprotection in a Parkinson's disease rat model. ACS Chem.Neurosci. 4 1249 PMID:23898966

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

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