

Product Data Sheet

Product Name: AC-262536

Cat. No.: GC46777

Chemical Properties

Cas. No. 870888-46-3

SMILES O[C@@H]1C[C@H]2N(C3=CC=C(C#N)C4=C3C=CC=C4)[C@@H](C1)CC2

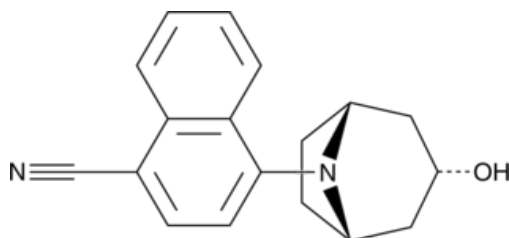
Formula C₁₈H₁₈N₂O M.Wt 278.4

Solubility 25mg/mL in DMSO (ultrasonic and warming and heat to 60°) Storage Store at -20°C

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

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

Structure



Background

AC-262536 is a selective androgen receptor modulator (SARM; $K_i = 5.01$ nM).¹ It is also a partial agonist of the androgen receptor ($EC_{50} = 1.58$ nM in a luciferase assay). AC-262536 is selective for the androgen receptor over a panel of 47 additional human nuclear receptors at 10 μ M. It inhibits dihydroxytestosterone-induced proliferation of LNCaP prostate cancer cells when used at concentrations of 0.1 and 1 μ M. AC-262536 (3, 10, and 30 mg/kg) reduces plasma luteinizing hormone levels and increases levator ani muscle weight, a marker of anabolic activity, in castrated rats. It exhibits smaller increases in prostate gland and seminal vesicle weight, markers of androgenic activity, compared with testosterone in the same model.

1. Piu, F., Gardell, L.R., Son, T., et al. Pharmacological characterization of AC-262536, a novel selective androgen receptor modulator. *J. Steroid Biochem. Mol. Biol.* 109(1-2):129-137 (2008)

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

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