
Product Data Sheet

Product Name: MK 386
 Cat. No.: GC50279

Chemical Properties

Cas. No. 158493-17-5

SMILES [H][C@]1([C@@H](CCCC(C)C)C)CC[C@]2([C@@]3([C@H](C[C@]4(N(C(CC[C@@]4([C@]3(CC[C@]12C)[H])C)=O)C)[H])C)[H])[H]

Formula C₂₈H₄₉NO M.Wt 415.69

Solubility Soluble in DMSO 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 human type 1 5 α -reductase inhibitor (5 α R1, IC₅₀ = 0.9 nM). Exhibits 100-fold selectivity for 5 α R1 over 5 α R2 (IC₅₀ = 154 nM). Suppresses human serum and sebum dihydrotestosterone (DHT) levels in a dose-dependent manner without affecting semen DHT concentrations. Orally active.

Schwartz et al (1997) MK-386, an inhibitor of 5 α -reductase type 1, reduces dihydrotestosterone concentrations in serum and sebum without affecting dihydrotestosterone concentrations in semen. J.Clin.Endocrinol.Metab. 82 1373 PMID:9141518 | Bakshi et al (1994) 4,7 beta-Dimethyl-4-azacholestan-3-one (MK-386) and related 4-azasteroids as selective inhibitors of human type 1 5 alpha-reductase. J.Med.Chem. 37 3871 PMID:7966146

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

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