

Product Specification Sheet

Product Name: RU58841

Catalog Number: C7858

Technical information:

Chemical Formula: $C_{17}H_{18}F_3N_3O_3$

CAS #: 154992-24-2

Molecular Weight: 369.34

Purity: > 98%

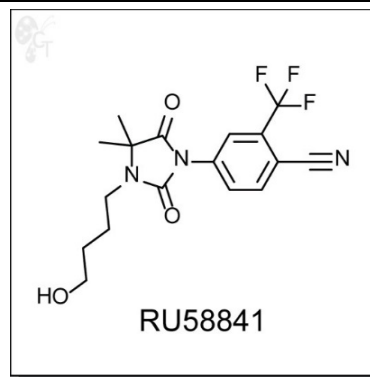
Appearance: White solid

Solubility: Soluble in DMSO up to 22 mM

Chemical Name: (Benzonitrile,4-[3-(4-hydroxybutyl)-4,4-dimethyl-2,5-dioxo-1-imidazolidinyl]-2-(trifluoromethyl)-)

Storage: Store solid powder at 4°C desiccated; Store DMSO solution at -20°C.

Shelf Life: In the unopened package, powder is stable for 1 year and DMSO solution is stable for 6 months under proper storage condition.



- Handling:**
- To make 10 mM stock solution, add 0.271mL of DMSO for each mg of RU58841.
 - For DMSO solution, briefly spin the vial at 500 rpm in a 50 mL conical tube to ensure maximum sample recovery.

Biological Activity: RU58841 is a nonsteroidal anti-androgen with potency (IC₅₀ = 100 nM, K_a = 1.1 nM) comparable to hydroxyflutamide. In competition studies, RU58841 suppresses dihydroxytestosterone (DHT) effects in PC3 cells with the wt AR in dose dependent manner, indicating antagonistic properties. [1]

Animal studies in the stumptailed macaque have shown that RU58841 has a dramatic effect on hair regrowth suggesting that it antagonizes testosterone-elicited follicular cell growth inhibition. [2]

- Reference:**
1. Pan et al., Evaluation of RU58841 as an anti-androgen in prostate PC3 cells and a topical anti-alopecia agent in the bald scalp of stumptailed macaques. *Endocrine* 1998, 9(1), 39-43. Pubmed ID: 9798729
 2. Obana et al., Inhibition of hair growth by testosterone in the presence of dermal papilla cells from the frontal bald scalp of the postpubertal stumptailed macaque. *Endocrinology* 1997, 138(1), 356-361. Pubmed ID: 8977424

To reorder: <http://www.cellagentech.com/RU58841/>

For Technical Support: technical@cellagentech.com

Chemicals are sold for research use only, not for clinical or diagnostic use.