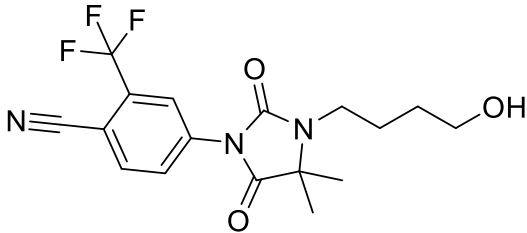


Product data sheet



MedKoo Cat#: 555811 Name: RU-58841 CAS#: 154992-24-2 Chemical Formula: C ₁₇ H ₁₈ F ₃ N ₃ O ₃ Exact Mass: 369.1300 Molecular Weight: 369.34		
Product supplied as:	Powder	
Purity (by HPLC):	≥ 98%	
Shipping conditions	Ambient temperature	
Storage conditions:	Powder: -20°C 3 years; 4°C 2 years. In solvent: -80°C 3 months; -20°C 2 weeks.	

1. Product description:

RU-58841 is a non-steroidal antiandrogen that binds to the androgen receptor and induces hair regrowth.

2. CoA, QC data, SDS, and handling instruction

SDS and handling instruction, CoA with copies of QC data (NMR, HPLC and MS analytical spectra) can be downloaded from the product web page under “QC And Documents” section. Note: copies of analytical spectra may not be available if the product is being supplied by MedKoo partners. Whether the product was made by MedKoo or provided by its partners, the quality is 100% guaranteed.

3. Solubility data

Solvent	Max Conc. mg/mL	Max Conc. mM
DMF	33	89.35
DMSO	25	67.69
Ethanol	33	89.35

4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	2.71 mL	13.54 mL	27.08 mL
5 mM	0.54 mL	2.71 mL	5.42 mL
10 mM	0.27 mL	1.35 mL	2.71 mL
50 mM	0.05 mL	0.27 mL	0.54 mL

5. Molarity Calculator, Reconstitution Calculator, Dilution Calculator

Please refer the product web page under section of “Calculator”

6. Recommended literature which reported protocols for in vitro and in vivo study

In vitro study

To be determined

In vivo study

- Pan HJ, Wilding G, Uno H, Inui S, Goldsmith L, Messing E, Chang C. Evaluation of RU58841 as an anti-androgen in prostate PC3 cells and a topical anti-alopecia agent in the bald scalp of stump-tailed macaques. *Endocrine*. 1998 Aug;9(1):39-43. doi: 10.1385/ENDO:9:1:39. PMID: 9798729.
- De Brouwer B, Tételin C, Leroy T, Bonfils A, Van Neste D. A controlled study of the effects of RU58841, a non-steroidal antiandrogen, on human hair production by balding scalp grafts maintained on testosterone-conditioned nude mice. *Br J Dermatol*. 1997 Nov;137(5):699-702. PMID: 9415227.

7. Bioactivity

Biological target:

RU-58841 is a non-steroidal antiandrogen that binds to the androgen receptor (K_d = 1.8, 1.1, 5.6, 1.3, and 1.4 nM for human, rat, mouse, hamster prostate, and hamster flank organ receptors, respectively). RU-58841 also induces hair regrowth in the bald frontal scalps of post-pubertal stump-tailed macaques.

Product data sheet



In vitro activity

To be determined

In vivo activity

Topical application of RU-58841 revealed a potent increase in density, thickening, and length of hair in the macaque model of androgenetic alopecia, whereas no systemic effects were detected. RU58841 may have potent antagonism to the wt AR and could be considered as a topically applied active anti-androgen for the treatment of androgen-dependent skin disorders, such as acne, androgenetic alopecia, and hirsutism.

Reference: Endocrine. 1998 Aug;9(1):39-43. <https://pubmed.ncbi.nlm.nih.gov/9798729/>

Note: The information listed here was extracted from literature. MedKoo has not independently retested and confirmed the accuracy of these methods. Customer should use it just for a reference only.