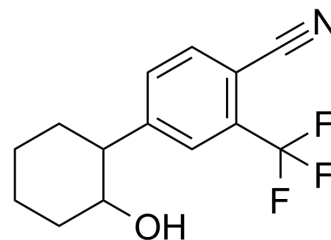


(Rac)-PF-998425

Cat. No.:	HY-14250A		
CAS No.:	1076225-26-7		
Molecular Formula:	C ₁₄ H ₁₄ F ₃ NO		
Molecular Weight:	269.26		
Target:	Androgen Receptor		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (371.39 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	3.7139 mL	18.5694 mL	37.1388 mL
	5 mM	0.7428 mL	3.7139 mL	7.4278 mL
	10 mM	0.3714 mL	1.8569 mL	3.7139 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (9.28 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (9.28 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (9.28 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

(Rac)-PF-998425 is a potent, selective, nonsteroidal androgen receptor (AR) antagonist. (Rac)-PF-998425 has IC₅₀ values of 26 and 90 nM in the AR binding and cellular assays, respectively. (Rac)-PF-998425 has the potential for the research of the androgenetic alopecia^[1].

REFERENCES

[1]. Li JJ, et al. Rational design and synthesis of 4-((1R,2R)-2-hydroxycyclohexyl)-2-(trifluoromethyl)benzonitrile (PF-998425), a novel, nonsteroidal androgen receptor antagonist devoid of phototoxicity for dermatological indications. J Med Chem. 2008;51(21):7

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

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