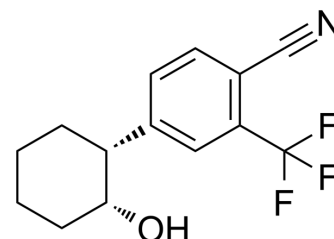


PF-998425

Cat. No.:	HY-14250		
CAS No.:	1076225-27-8		
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 : 50 mg/mL (185.69 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	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	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (9.28 mM); Suspended solution; Need ultrasonic 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	PF-998425 is a potent, selective nonsteroidal androgen receptor (AR) antagonist with an IC ₅₀ of 37 nM and 43 nM in AR binding and cellular assays, respectively. PF-998425 has low activity on common receptors and enzymes, such as progesterone receptor. PF-998425 can be used for sebum control and androgenetic alopecia research ^[1] .
IC₅₀ & Target	IC ₅₀ : 37 nM (AR binding) and 43 nM (AR cellular) ^[1]
In Vivo	PF-998425 (Compound (-)-6a) is rapidly metabolized in rat liver microsomes (t _{1/2} =4 min, C _{Lint} =350 (μL/min)/mg protein). In

vivo clearance data in dogs are consistent with the high clearance predicted in vitro in rat. Following intravenous administration of PF-998425, mean systemic plasma clearance is 40 (mL/min)/kg. The mean apparent of volume of distribution at steady state is 6.5 L/kg, and the mean terminal phase half-life is 2.6 h^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Jie Jack Li, et al. Rational design and synthesis of 4-((1R,2R)-2-hydroxycyclohexyl)-2(trifluoromethyl)benzotrile (PF-998425), a novel, nonsteroidal androgen receptor antagonist devoid of phototoxicity for dermatological indications. J Med Chem. 2008 Nov 13;51(21):7010-4.

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

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