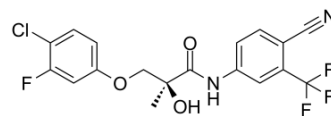


S-23

Cat. No.:	HY-112257		
CAS No.:	1010396-29-8		
Molecular Formula:	C ₁₈ H ₁₃ ClF ₄ N ₂ O ₃		
Molecular Weight:	416.75		
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 (239.95 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.3995 mL	11.9976 mL	23.9952 mL
5 mM	0.4799 mL	2.3995 mL	4.7990 mL
10 mM	0.2400 mL	1.1998 mL	2.3995 mL

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

BIOLOGICAL ACTIVITY

Description

S-23 is an orally active selective androgen receptor modulator (SARM) with a K_i of 1.7 nM. S-23 induces androgen receptor (AR)-mediated transcriptional activation in CV-1 cells. S-23 increases prostate, seminal vesicle, and levator ani muscle weights in castrated rats^{[1][2]}.

IC₅₀ & Target

Ki: 1.7 nM (Androgen receptor)^[1]

In Vitro

S-23 induces AR-mediated transcriptional activation in CV-1 cells when used at a concentration of 10 nM^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

By administration of S-23 to castrated animals, androgen-dependent organ weights increased in a dose-dependent manner. The ED₅₀ of S-23 in the prostate and levator ani muscle is 0.43 and 0.079 mg/d, respectively^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model: Male Sprague Dawley rats (in castrated male rats)^[1]

Dosage:	0.01-3 mg
Administration:	S.c.; daily for 14 d
Result:	Androgen-dependent organ weights increased in a dose-dependent manner. At a dose rate as low as 0.1 mg/d, S-23 is able to selectively maintain the weight of the levator ani muscle at the intact control level, whereas its effects on the prostate and seminal vesicles are lower than 30% of those observed in intact controls.

REFERENCES

- [1]. Jones A, et al. Preclinical characterization of a (S)-N-(4-cyano-3-trifluoromethyl-phenyl)-3-(3-fluoro, 4-chlorophenoxy)-2-hydroxy-2-methyl-propanamide: a selective androgen receptor modulator for hormonal male contraception. *Endocrinology*. 2009;150(1):385-395.
- [2]. Thevis M, et al. Characterization of in vitro generated metabolites of the selective androgen receptor modulators S-22 and S-23 and in vivo comparison to post-administration canine urine specimens. *Drug Test Anal*. 2010;2(11-12):589-598.

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

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