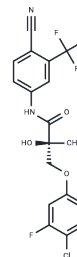


S-23

## Chemical Properties

CAS No. : 1010396-29-8  
 Formula: C<sub>18</sub>H<sub>13</sub>ClF<sub>4</sub>N<sub>2</sub>O<sub>3</sub>  
 Molecular Weight: 416.75  
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
 Actual storage temperature shall be subject to the COA.



## Biological Description

Description	S-23 ((S)-3-(4-chloro-3-fluorophenoxy)-N-(4-cyano-3-(trifluoromethyl)phenyl)-2-hydroxy-2-methylpropanamide) is an oral selective androgen receptor modulator (SARM) with a K <sub>i</sub> of 1.7 nM. S-23 increases prostate, seminal vesicle, and levator ani muscle weights in castrated rats.
Targets(IC50)	Androgen Receptor
In vitro	Administration of 10 nM S-23 induces AR-mediated transcriptional activation in CV-1 cells [2].
In vivo	Administration of S-23 to castrated animals increases the weights of the androgen-dependent organ dose-dependently with the ED <sub>50</sub> s of S-23 in the prostate and levator ani muscle of 0.43 and 0.079 mg/d, respectively[2].

## Solubility Information

Solubility	DMSO: 250 mg/mL (599.88 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3995 mL	11.9976 mL	23.9952 mL
5 mM	0.4799 mL	2.3995 mL	4.799 mL
10 mM	0.240 mL	1.1998 mL	2.3995 mL
50 mM	0.048 mL	0.240 mL	0.4799 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Coss CC, Bauler M, Narayanan R, Miller DD, Dalton JT. Alanine aminotransferase regulation by androgens in non-hepatic tissues. *Pharm Res.* 2012 Apr;29(4):1046-56.

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.

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