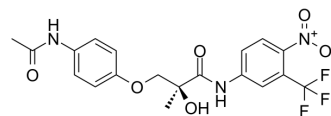


## GTx-007

Cat. No.:	HY-12023
CAS No.:	401900-40-1
Molecular Formula:	C <sub>19</sub> H <sub>18</sub> F <sub>3</sub> N <sub>3</sub> O <sub>6</sub>
Molecular Weight:	441.36
Target:	Androgen Receptor
Pathway:	Vitamin D Related/Nuclear Receptor
Storage:	Powder    -20°C    3 years 4°C    2 years In solvent   -80°C    2 years -20°C    1 year



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : ≥ 100 mg/mL (226.57 mM)  
 \* "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		2.2657 mL	11.3286 mL	22.6572 mL
	5 mM		0.4531 mL	2.2657 mL	4.5314 mL
	10 mM		0.2266 mL	1.1329 mL	2.2657 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 (5.66 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
 Solubility: ≥ 2.5 mg/mL (5.66 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

GTx-007 (S-4) is an orally active and selective nonsteroidal androgen receptor (AR) modulator (SARM) and a partial agonist, with K<sub>i</sub> of 4 nM. GTx-007 (S-4) is identified as SARMs with potent and tissue-selective in vivo pharmacological activity<sup>[1][2]</sup>.

#### In Vivo

GTx-007 (S-4) is only a partial agonist in the prostate and seminal vesicles, restoring them to 33.8 and 28.2% of intact animals, respectively<sup>[2]</sup>.

GTx-007 significantly increased uterine expression of Wnt4 and Wnt7a<sup>[2]</sup>.

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

Animal Model:	Female C57BL/6J mice <sup>[2]</sup> .
Dosage:	0.5 mg/mouse.
Administration:	Seven daily subcutaneous injections.
Result:	Resulted in a highly heterogeneous pattern of AR expression in all compartments, with a significant increase of AR-positive cells in the luminal epithelium compared to VC. Had approximately ten glands per uterine cross-section within an endometrium, with a compact stroma, consistent with overall endogenous steroid depletion. Did not detect any impact of GTx-007 on body weight.

## CUSTOMER VALIDATION

- Drug Test Anal. 2020 Dec 7.
- Drug Test Anal. 2020 Aug 27.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

## REFERENCES

- [1]. Donghua Yin, et al. Pharmacodynamics of selective androgen receptor modulators. J Pharmacol Exp Ther. 2003 Mar;304(3):1334-40.
- [2]. Ioannis Simitsidellis, et al. Selective androgen receptor modulators (SARMs) have specific impacts on the mouse uterus. J Endocrinol. 2019 Sep;242(3):227-239.

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

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