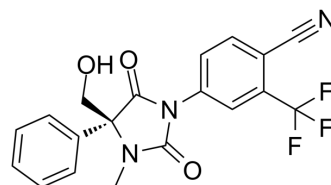


## GLPG0492

<b>Cat. No.:</b>	HY-18102		
<b>CAS No.:</b>	1215085-92-9		
<b>Molecular Formula:</b>	C <sub>19</sub> H <sub>14</sub> F <sub>3</sub> N <sub>3</sub> O <sub>3</sub>		
<b>Molecular Weight:</b>	389.33		
<b>Target:</b>	Androgen Receptor		
<b>Pathway:</b>	Vitamin D Related/Nuclear Receptor		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : ≥ 50 mg/mL (128.43 mM)  
 \* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.5685 mL	12.8426 mL	25.6852 mL
	5 mM	0.5137 mL	2.5685 mL	5.1370 mL
	10 mM	0.2569 mL	1.2843 mL	2.5685 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 (6.42 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
 Solubility: ≥ 2.5 mg/mL (6.42 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
 Solubility: ≥ 2.5 mg/mL (6.42 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

GLPG0492 is a non-steroidal selective androgen receptor modulator (potency 12 nM). GLPG0492 has the potential for the research of musculo-skeletal diseases such as sarcopenia and cachexia<sup>[1][2]</sup>.

### CUSTOMER VALIDATION

- Food Chem. 2019 Sep 24;4:100056.
- J Chromatogr A. 2019 Aug 30;1600:183-196.
- J Steroid Biochem Mol Biol. 2019 Feb 27;189:81-86.
- Drug Test Anal. 2020 Aug 27.
- Food Addit Contam Part A Chem Anal Control Expo Risk Assess. 2020 Aug;37(8):1253-1263.

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

## REFERENCES

---

- [1]. Nique F, et al. Identification of a 4-(hydroxymethyl)diarylhydantoin as a selective androgen receptor modulator. J Med Chem. 2012 Oct 11;55(19):8236-47.
- [2]. Cozzoli A, et al. GLPG0492, a novel selective androgen receptor modulator, improves muscle performance in the exercised-mdx mouse model of muscular dystrophy. Pharmacol Res. 2013 Jun;72:9-24.
- [3]. Blanqué R, et al. Characterization of GLPG0492, a selective androgen receptor modulator, in a mouse model of hindlimb immobilization. BMC Musculoskelet Disord. 2014 Sep 3;15:291.
- 

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA