



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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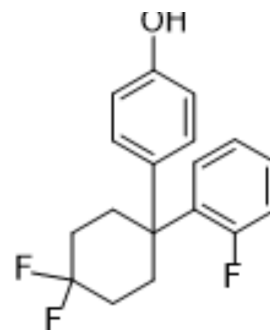
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## AC-186

<b>Cat. No.:</b>	HY-110157		
<b>CAS No.:</b>	1421854-16-1		
<b>Molecular Formula:</b>	C <sub>18</sub> H <sub>17</sub> F <sub>3</sub> O		
<b>Molecular Weight:</b>	306.32		
<b>Target:</b>	Estrogen Receptor/ERR		
<b>Pathway:</b>	Vitamin D Related/Nuclear Receptor		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (326.46 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	3.2646 mL	16.3228 mL	32.6456 mL
		5 mM	0.6529 mL	3.2646 mL	6.5291 mL
10 mM		0.3265 mL	1.6323 mL	3.2646 mL	
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 2.5 mg/mL (8.16 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (8.16 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (8.16 mM); Clear solution</li> </ol>				

### BIOLOGICAL ACTIVITY

<b>Description</b>	AC-186 is a selective non-steroidal estrogen receptor β (ERβ) agonist with EC <sub>50</sub> s of 6 nM and 5000 nM for ERβ and ERα, respectively. AC-186 shows gender selective neuroprotective effects in a male rat model of Parkinson's disease <sup>[1]</sup> .	
<b>IC<sub>50</sub> &amp; Target</b>	ERβ 6 nM (EC50)	ERα 5000 nM (EC50)
<b>In Vitro</b>	AC-186 (10 μM; 72 h) inhibits growth of LNCaP cells, and has no effect on PC3 cells <sup>[1]</sup> .	

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

#### Cell Viability Assay<sup>[1]</sup>

Cell Line:	LNCaP cells
Concentration:	10 $\mu$ M
Incubation Time:	72 h
Result:	Inhibited growth of LNCaP cells.

#### In Vivo

AC-186 (10 mg/kg; s.c.; once) exhibits gender selective neuroprotective effects in a male rat model of Parkinson's disease<sup>[1]</sup>. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Male Sprague-Dawley rats ( 225-250 g) induced through bilateral 6-hydroxydopamine lesions of the substantia nigra <sup>[1]</sup> .
Dosage:	10 mg/kg
Administration:	s.c.; once
Result:	Prevented motor, cognitive, and sensorimotor gating deficits and mitigated the loss of dopamine neurons in the substantia nigra, in males, but not in females.

## REFERENCES

[1]. Jian-Nong Ma, et al. Estrogen Receptor Beta Selective Agonists as Agents to Treat Chemotherapeutic-Induced Neuropathic Pain. ACS Chem Neurosci. 2016 Sep 21;7(9):1180-7.

[2]. McFarland K, et al. AC-186, a selective nonsteroidal estrogen receptor  $\beta$  agonist, shows gender specific neuroprotection in a Parkinson's disease rat model. ACS Chem Neurosci. 2013 Sep 18;4(9):1249-55.

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

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