



# 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

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

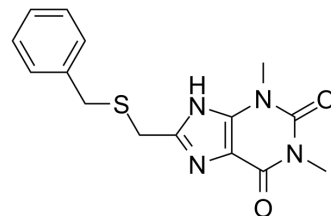
[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

## TPBM

<b>Cat. No.:</b>	HY-131404		
<b>CAS No.:</b>	6466-43-9		
<b>Molecular Formula:</b>	C <sub>15</sub> H <sub>16</sub> N <sub>4</sub> O <sub>2</sub> S		
<b>Molecular Weight:</b>	316.38		
<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 (316.08 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	3.1608 mL	15.8038 mL	31.6076 mL
		5 mM	0.6322 mL	3.1608 mL	6.3215 mL
10 mM		0.3161 mL	1.5804 mL	3.1608 mL	
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (7.90 mM); Clear solution				

## BIOLOGICAL ACTIVITY

<b>Description</b>	TPBM is a potent estrogen receptor $\alpha$ (ER $\alpha$ ) inhibitor with an IC <sub>50</sub> value of 9 $\mu$ M for 17 $\beta$ -estradiol (E2)-ER $\alpha$ . TPBM reduces E2-ER $\alpha$ recruitment to an endogenous estrogen-responsive gene. TPBM inhibits E2-dependent growth of ER $\alpha$ -positive cancer cells (IC <sub>50</sub> =5 $\mu$ M). TPBM is not toxic to cells and does not affect estrogen-independent cell growth <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	IC <sub>50</sub> : 9 $\mu$ M (17 $\beta$ -estradiol (E2)-ER $\alpha$ ) <sup>[1]</sup>

## REFERENCES

[1]. Mao C, et al. A new small molecule inhibitor of estrogen receptor alpha binding to estrogen response elements blocks estrogen-dependent growth of cancer cells. J Biol Chem. 2008;283(19):12819-12830.

---

**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