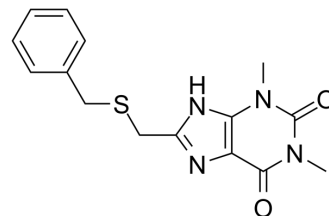


TPBM

Cat. No.:	HY-131404		
CAS No.:	6466-43-9		
Molecular Formula:	C ₁₅ H ₁₆ N ₄ O ₂ S		
Molecular Weight:	316.38		
Target:	Estrogen Receptor/ERR		
Pathway:	Vitamin D Related/Nuclear Receptor		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (316.08 mM; Need ultrasonic)											
	<table border="1"> <tr> <td rowspan="2">Solvent</td> <td rowspan="2">Concentration</td> <td colspan="3">Mass</td> </tr> <tr> <td>1 mg</td> <td>5 mg</td> <td>10 mg</td> </tr> </table>	Solvent	Concentration	Mass			1 mg	5 mg	10 mg			
Solvent	Concentration			Mass								
		1 mg	5 mg	10 mg								
Preparing Stock Solutions	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.											
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (7.90 mM); Clear solution											

BIOLOGICAL ACTIVITY

Description	TPBM is a potent estrogen receptor α (ER α) inhibitor with an IC ₅₀ value of 9 μ M for 17 β -estradiol (E2)-ER α . TPBM reduces E2-ER α recruitment to an endogenous estrogen-responsive gene. TPBM inhibits E2-dependent growth of ER α -positive cancer cells (IC ₅₀ =5 μ M). TPBM is not toxic to cells and does not affect estrogen-independent cell growth ^[1] .
IC₅₀ & Target	IC ₅₀ : 9 μ M (17 β -estradiol (E2)-ER α) ^[1]

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.

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