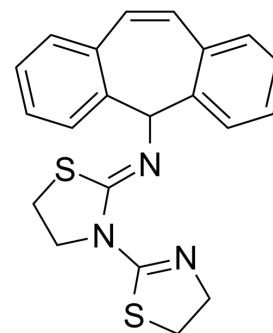


ERR α antagonist-1

Cat. No.:	HY-113960
CAS No.:	1072145-33-5
Molecular Formula:	C ₂₁ H ₁₉ N ₃ S ₂
Molecular Weight:	377.53
Target:	Estrogen Receptor/ERR
Pathway:	Others
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 25 mg/mL (66.22 mM); ultrasonic and warming and heat to 60°C																					
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent</th> <th rowspan="2">Mass</th> <th colspan="3">Concentration</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Preparing Stock Solutions</td> <td>1 mM</td> <td>2.6488 mL</td> <td>13.2440 mL</td> <td>26.4880 mL</td> </tr> <tr> <td>5 mM</td> <td>0.5298 mL</td> <td>2.6488 mL</td> <td>5.2976 mL</td> </tr> <tr> <td>10 mM</td> <td>0.2649 mL</td> <td>1.3244 mL</td> <td>2.6488 mL</td> </tr> </tbody> </table>	Solvent	Mass	Concentration			1 mg	5 mg	10 mg	Preparing Stock Solutions	1 mM	2.6488 mL	13.2440 mL	26.4880 mL	5 mM	0.5298 mL	2.6488 mL	5.2976 mL	10 mM	0.2649 mL	1.3244 mL	2.6488 mL
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	Please refer to the solubility information to select the appropriate solvent.																					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (6.62 mM); Suspended solution; Need ultrasonic																					

BIOLOGICAL ACTIVITY

Description	ERR α antagonist-1 (Compound A) is a selective and high affinity estrogen-related receptor α (ERR α) antagonist. ERR α antagonist-1 inhibits interaction of ERR α with Proliferator-activated Receptor γ Coactivator-1 α (PGC-1 α) and PGC-1 β , the IC ₅₀ values are 170 nM and 180 nM, respectively. ERR α antagonist-1 does not inhibit the interaction of either ERR β or ERR γ with PGC-1 α and PGC-1 β coactivator, and also does not inhibit interaction of ER α or ER β with PGC-1 α or SRC-1 ^[1] .
IC₅₀ & Target	ERR α

REFERENCES

[1]. Michael J. Chisamore, et al. Identification of Small Molecule Estrogen-Related

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

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