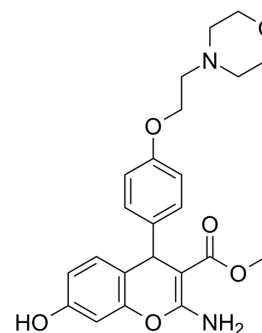


Estrogen receptor β antagonist 2

Cat. No.:	HY-150693		
CAS No.:	2580941-14-4		
Molecular Formula:	C ₂₃ H ₂₆ N ₂ O ₆		
Molecular Weight:	426.46		
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 (234.49 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.3449 mL	11.7244 mL	23.4489 mL
		5 mM	0.4690 mL	2.3449 mL	4.6898 mL
10 mM		0.2345 mL	1.1724 mL	2.3449 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (5.86 mM); Clear solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (5.86 mM); Clear solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.5 mg/mL (5.86 mM); Clear solution; Need ultrasonic 				

BIOLOGICAL ACTIVITY

Description	Estrogen receptor β antagonist 2 is a potent and selective estrogen receptor β (ER β) antagonist with IC ₅₀ s of 109.10, 0.63 μ M for ER α and ER β , respectively ^[1] .	
IC₅₀ & Target	ER α 109.10 μ M (IC ₅₀)	ER β 0.63 μ M (IC ₅₀)
In Vitro	Estrogen receptor β antagonist 2 (compound 42) (0-100 μ M) shows antiproliferative activity with IC ₅₀ value of >100 μ M in	

MCF-7cells^[1].

.Estrogen receptor β antagonist 2 exhibits differences in interaction potential to H₁₂ of ER β via Asp303 (H3) H-bonding to Tyr488^[1].

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

REFERENCES

[1]. Carr M, et al. Optimisation of estrogen receptor subtype-selectivity of a 4-Aryl-4H-chromene scaffold previously identified by virtual screening. Bioorg Med Chem. 2020 Mar 1;28(5):115261.

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

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