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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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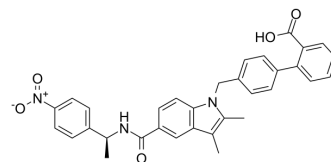
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SR1664

Cat. No.:	HY-12483
CAS No.:	1338259-05-4
Molecular Formula:	C ₃₃ H ₂₉ N ₃ O ₅
Molecular Weight:	547.6
Target:	PPAR
Pathway:	Cell Cycle/DNA Damage
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 (182.62 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		1.8262 mL	9.1308 mL	18.2615 mL
		5 mM		0.3652 mL	1.8262 mL	3.6523 mL
		10 mM		0.1826 mL	0.9131 mL	1.8262 mL
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 (4.57 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (4.57 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	SR1664 is a PPAR γ antagonist. SR1664 binds to PPAR γ and potently inhibits Cdk5-mediated PPAR γ phosphorylation (IC ₅₀ =80 nM; K _i = 28.67 nM) ^{[1][2]} .
IC ₅₀ & Target	PPAR- γ 80 nM (IC ₅₀)
In Vitro	SR1664 (1 μ M; HEK293T cells) pharmacological effect on PPAR γ activity is altered by mutagenesis of F282 to alanine (F282A) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Marciano DP, Kuruville DS, Boregowda SV, et al. Pharmacological repression of PPAR γ promotes osteogenesis. Nat Commun. 2015;6:7443. Published 2015 Jun 12.
- [2]. Choi JH, et al. Antidiabetic actions of a non-agonist PPAR γ ligand blocking Cdk5-mediated phosphorylation. Nature. 2011;477(7365):477-481. Published 2011 Sep 4.
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Caution: Product has not been fully validated for medical applications. For research use only.

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