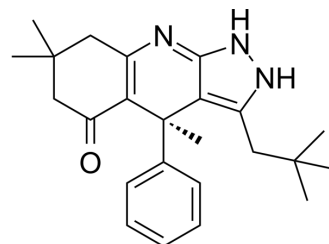


(R)-BRD3731

Cat. No.:	HY-124607		
CAS No.:	2056262-08-7		
Molecular Formula:	C ₂₄ H ₃₁ N ₃ O		
Molecular Weight:	377.52		
Target:	GSK-3		
Pathway:	PI3K/Akt/mTOR; Stem Cell/Wnt		
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 : 200 mg/mL (529.77 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.6489 mL	13.2443 mL	26.4887 mL
		5 mM	0.5298 mL	2.6489 mL	5.2977 mL
		10 mM	0.2649 mL	1.3244 mL	2.6489 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: ≥ 5 mg/mL (13.24 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 5 mg/mL (13.24 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	(R)-BRD3731 is a GSK3 inhibitor extracted from patent US20160375006A1, compound example 273, has IC ₅₀ s of 1.05 and 6.7 μM for GSK3β and GSK3α, respectively ^[1] .	
IC₅₀ & Target	GSK3β 1.05 μM (IC ₅₀)	GSK3α 6.7 μM (IC ₅₀)

REFERENCES

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

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA