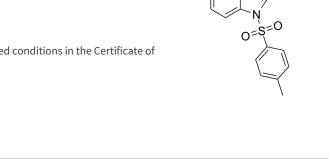
GSK-3 β inhibitor 7

®

Cat. No.:	HY-143261	
Molecular Formula:	$C_{27}H_{23}BrN_4O_2S$	
Molecular Weight:	547.47	Br
Target:	GSK-3	Į
Pathway:	PI3K/Akt/mTOR; Stem Cell/Wnt	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	



Product Data Sheet

Description	GSK-3β inhibitor 7 is binding pocket of GS can be used in the re disorder ^[1] .	K-3β and forms hy	drogen-bond	l. GSK-3β i	nhibito	or 7 sho	ows high	hepatocyte	e glucose up	take (83.5%	%), an	
IC ₅₀ & Target	GSK-3β 5.25 μΜ (IC ₅₀)											
In Vitro	GSK-3β inhibitor 7 (Compound 6x, 5 μM, 3 h) shows high glucose uptake (83.5%) in musle L6 cells ^[1] . GSK-3β inhibitor 7 (0-30 μM, 30 min) inhibits GSK-3β with an IC ₅₀ value of 5.25 μ M ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.											
In Vivo	GSK-3β inhibitor 7 (C ng/mL) and oral bioa GSK-3β inhibitor 7 (in	wailability in rats ^{[1} ntragastric adminis].								_{ax} : 507	
		idently confirmed	he accuracy	of these m	nethod	s. They	are for I	reference or	nly.			
	Animal Model:	Idently confirmed					are for I	reference or	nly.			
			ley rats (pha				are for i	reference or	nly.			
	Animal Model:	Sprague-Daw	ley rats (phan ng/kg	rmacokine	tic ass	ay) ^[1]			nly.			
	Animal Model: Dosage:	Sprague-Daw 2 mg/kg, 20 m	ley rats (phan ng/kg njection (2 m	rmacokine g/kg), oral	tic ass admir	ay) ^[1] nistratio	on (20 m	g/kg)	nly.			
	Animal Model: Dosage: Administration:	Sprague-Daw 2 mg/kg, 20 m Intravenous in	ley rats (phan ng/kg njection (2 m	rmacokine g/kg), oral	admir hibito t _{1/2}	ay) ^[1] nistration r 7 (Co Tmax	on (20 m mpound C _{max}	g/kg) 6x). AUC _{0-t}	nly. AUC _{0-∞} .) (hr•ng/mL	CL)(mL/hr/kį	F g) (%)	



	GSK-3β inhibitor 7	Intravenous injection	2	8.95	0.08	519	859	948.6	2138.66	
	F: oral bioavailability.									
Animal Model: Male and female mice (acute assay) ^[1]										
Dosage:	1 g/kg	1 g/kg								
Administration:	intrag	intragastric administration								
Result:	Show	Increased body weights, caused no death or obvious weight loss. Showed no marked pathological damage in important organs (brain, heart, liver, spleer lung, and kidney).								

REFERENCES

[1]. Shuwen Han, et al. Structure-Based design of Marine-derived Meridianin C derivatives as glycogen synthase kinase 3β inhibitors with improved oral bioavailability: From aminopyrimidyl-indoles to the sulfonyl analogues. Bioorg Chem. 2022 Feb;119:105537.

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