

Product Data Sheet

CP-91149

Cat. No.: HY-13525

CAS No.: 186392-40-5

Target: Others
Pathway: Others

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 (250.08 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	2.5008 mL	12.5041 mL	25.0081 mL
	5 mM	0.5002 mL	2.5008 mL	5.0016 mL
	10 mM	0.2501 mL	1.2504 mL	2.5008 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 (6.25 mM); Clear solution
- 2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.25 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

CP-91149 is a GP (glycogen phosphorylase) inhibitor. CP-91149 promotes glycogen resynthesis, but not its overaccumulation. CP-91149 has the potential for Type II (insulin-dependent) diabetes study^[1].

In Vitro

CP-91149 treatment decreases muscle GP activity by converting the phosphorylated AMP-independent a for

CP-91149 treatment decreases muscle GP activity by converting the phosphorylated AMP-independent α form into the dephosphorylated AMP-dependent b form and inhibiting GP α activity and AMP-mediated GP b activation^[1]. CP-91149 (10, 30, 50 μ M) inhibits brain GP and causes glycogen accumulation in A549 cells^[2].

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

Cell Viability Assay^[1]

Cell Line:	Cells were transduced with adenoviruses and incubated in the presence of 25 mM glucose for 2 days.	
Concentration:	10 μM (glucose– or glucose+ for 18 h).	
Incubation Time:	3 h.	
Result:	Promoted the conversion of GP a into GP b, according to α model proposed in hepatocytes.	
Western Blot Analysis ^[2]		
Cell Line:	A549 cells.	
Concentration:	0, 10, 30, 50 μΜ.	
Incubation Time:	72 h.	
Result: A significant increase in glycogen accumulation was detected at 10 µM of CP-91 compared with untreated cells with a maximal glycogen accumulation at 30 µM Intracellular glycogen content decreased at 50 µM CP-91149, perhaps explained additional pharmacological effects of the drug. The dose-dependent accumulate intracellular glycogen in A549 cells by CP-91149 indicates that CP-91149 inhibits in tissue culture.		

CUSTOMER VALIDATION

• J Ginseng Res. 2023 Jun 30.

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 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$

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