## Lapaquistat

Cat. No.:	HY-14925		
CAS No.:	189059-71-0	C	
Molecular Formula:	C <sub>31</sub> H <sub>39</sub> ClN <sub>2</sub> O	8	
Molecular Weight:	603.1		
Target:	Endogenous Metabolite; Drug Metabolite		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

## SOLVENT & SOLUBILITY

	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg	
		1 mM	1.6581 mL	8.2905 mL	16.5810 ml	
		5 mM	0.3316 mL	1.6581 mL	3.3162 mL	
		10 mM	0.1658 mL	0.8290 mL	1.6581 mL	
	Please refer to the sc	lubility information to select the app	propriate solvent.			
vo		one by one: 10% DMSO >> 40% PEC ng/mL (1.38 mM); Clear solution	G300 >> 5% Tween-8(	) >> 45% saline		
Solubility: ≥ 0.83 n 3. Add each solvent o		t one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) mg/mL (1.38 mM); Clear solution				
	one by one: 10% DMSO >> 90% corn oil ng/mL (1.38 mM); Clear solution					

BIOLOGICAL ACTIVITY				
Description	Lapaquistat (T-91485), a cholesterol biosynthesis inhibitor, is the active metabolite of <u>Lapaquistat acetate</u> (HY-16274). Lapaquistat can decrease statin-induced myotoxicity in lipid-lowering therapy <sup>[1]</sup> .			
IC <sub>50</sub> & Target	Cholesterol biosynthesis <sup>[1]</sup>			
In Vitro	Lapaquistat inhibits cholesterol biosynthesis in differentiated RD (rhabdomyosarcoma) cells, with an $IC_{50}$ of 36 nM <sup>[1]</sup> . Lapaquistat potently inhibits cholesterol synthesis in RD cells, with an $IC_{25}$ exceeded 100 $\mu$ M <sup>[1]</sup> .			

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	Lapaquistat concentration-dependently inhibits cholesterol biosynthesis in human skeletal myocytes, with an IC <sub>50</sub> of 45 nM <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	After oral administration to rats, <u>Lapaquistat acetate</u> (HY-16274) is absorbed and rapidly hydrolyzed into a pharmacological active metabolite, Lapaquistat <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## CUSTOMER VALIDATION

• Mol Cell. 2023 Apr 14;S1097-2765(23)00243-5.

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## REFERENCES

[1]. Nishimoto T, et al. Comparing myotoxic effects of squalene synthase inhibitor, T-91485, and 3-hydroxy-3-methylglutaryl coenzyme A (HMG-CoA) reductase inhibitors in human myocytes. Biochem Pharmacol. 2003 Dec 1;66(11):2133-9.

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

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