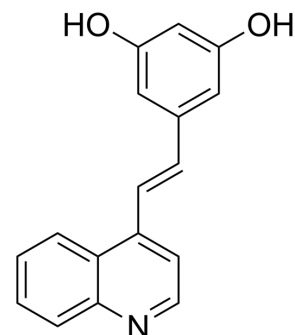


RV01

Cat. No.:	HY-126241		
CAS No.:	1016897-10-1		
Molecular Formula:	C ₁₇ H ₁₃ NO ₂		
Molecular Weight:	263.29		
Target:	Aldehyde Dehydrogenase (ALDH)		
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

In Vitro

DMSO : 5 mg/mL (18.99 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	3.7981 mL	18.9905 mL	37.9809 mL
5 mM	0.7596 mL	3.7981 mL	7.5962 mL
10 mM	0.3798 mL	1.8990 mL	3.7981 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

RV01 is an analogue of resveratrol, inhibits DNA damage, reduces acetaldehyde dehydrogenase 2 (ALDH2) mRNA expression induced by ethanol, and exhibits hydroxyl radical scavenging activity^[1]. RV01 decreases iNOS expression, with anti-neuroinflammatory activity^[2].

IC₅₀ & Target

ALDH2

REFERENCES

[1]. Yan Y, et al. Protection of resveratrol and its analogues against ethanol-induced oxidative DNA damage in human peripheral lymphocytes. *Mutat Res.* 2011 Apr 3;721(2):171-7.

[2]. Hou Y, et al. A Novel Quinoly-Substituted Analogue of Resveratrol Inhibits LPS-Induced Inflammatory Responses in Microglial Cells by Blocking the NF-κB/MAPK Signaling Pathways. *Mol Nutr Food Res.* 2019 Aug 4:e1801380.

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

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