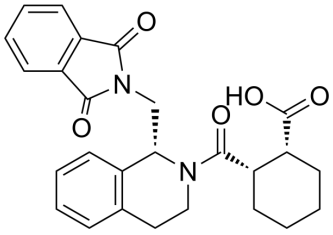
(R,S,R)-ML334

Cat. No.:	HY-110258B
CAS No.:	1432065-33-2
Molecular Formula:	$C_{26}H_{26}N_2O_5$
Molecular Weight:	446.5
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 (223.96 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.2396 mL	11.1982 mL	22.3964 mL
5 mM	0.4479 mL	2.2396 mL	4.4793 mL
10 mM	0.2240 mL	1.1198 mL	2.2396 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 5 mg/mL (11.20 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 5 mg/mL (11.20 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

(R,S,R)-ML334 is the isomer of ML334 (HY-110258), and can be used as an experimental control. ML334 is a potent, cell permeable activator of NRF2 by inhibition of Keap1-NRF2 protein-protein interaction. ML334 binds to Keap1 Kelch domain with a K_d of 1 μM. ML334 stimulates NRF2 expression and nuclear translocation and induces antioxidant response elements (ARE) activity[1][2].

REFERENCES

[1]. Wen X, et al. Activation of NRF2 Signaling in HEK293 Cells by a First-in-Class Direct KEAP1-NRF2 Inhibitor. J Biochem Mol Toxicol. 2015 Jun;29(6):261-6.

[2]. Hu L, et al. Discovery of a small-molecule inhibitor and cellular probe of Keap1-Nrf2 protein-protein interaction. Bioorg Med Chem Lett. 2013 May 15;23(10):3039-43.

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