Kobophenol A

Cat. No.: HY-126419

CAS No.: 124027-58-3

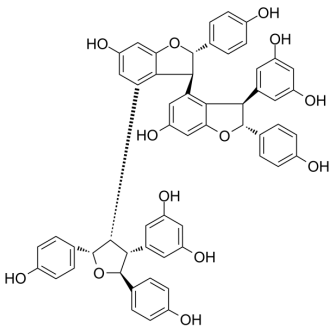
Molecular Formula: $C_{56}H_{44}O_{13}$

Molecular Weight: 924.94

Target: SARS-CoV; PKC

Pathway: Anti-infection; Epigenetics; TGF-beta/Smad

Storage: 4°C, sealed storage, away from moisture and light
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (108.12 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	1.0812 mL	5.4058 mL	10.8115 mL
	5 mM	0.2162 mL	1.0812 mL	2.1623 mL
	10 mM	0.1081 mL	0.5406 mL	1.0812 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 (2.70 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (2.70 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (2.70 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Kobophenol A, an oligomeric stilbene, blocks the interaction between the ACE2 receptor and S1-RBD with an IC_{50} of 1.81 μM and inhibits SARS-CoV-2 viral infection in cells with an EC_{50} of 71.6 μM. Kobophenol A inhibits the activity of partially purified rat brain protein kinase C (PKC) with an IC_{50} of 52 μM[1][2].

REFERENCES

[1]. Gangadevi S, et al. Kobophenol A Inhibits Binding of Host ACE2 Receptor with Spike RBD Domain of SARS-CoV-2, a Lead Compound for Blocking COVID-19. J Phys

Chem Lett. 2021;12(7):1793-1802.

[2]. Xu G, Zhang LP, Chen LF, Hu CQ. Yao Xue Xue Bao. 1994;29(11):818-822.

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

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