# CU06-1004

**Cat. No.:** HY-155946

**CAS No.:** 1296734-08-1

**Molecular Formula:** $C_{37}H_{54}O_8$

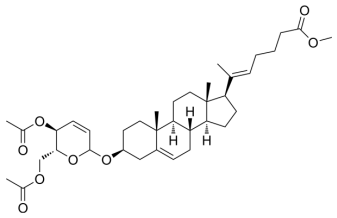
**Molecular Weight:** 626.82

**Target:** Others

**Pathway:** Others

**Storage:**

| | | |
|---|---|---|
| Pure form | -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 (159.54 mM; Need ultrasonic)

| Preparing Stock Solutions | Solvent / Mass / Concentration | 1 mg | 5 mg | 10 mg |
|---|---|---|---|---|
| | 1 mM | 1.5954 mL | 7.9768 mL | 15.9535 mL |
| | 5 mM | 0.3191 mL | 1.5954 mL | 3.1907 mL |
| | 10 mM | 0.1595 mL | 0.7977 mL | 1.5954 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 (3.99 mM); Clear solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: 2.5 mg/mL (3.99 mM); Clear solution; Need ultrasonic

## BIOLOGICAL ACTIVITY

**Description**

CU06-1004 (Sac-1004) is an orally active endothelial dysfunction blocker. CU06-1004 ameliorates endothelial dysfunction by inhibiting hyperpermeability and inflammation, and is potent in inhibiting vascular leakage and inflammation in various animal models, such as diabetic retinopathy, stroke, cancer, and inflammatory bowel disease. CU06-1004 ameliorates CDAA-induced mouse model of NASH. CU06-1004 also improves cardiac function[1][2][3].

## REFERENCES

[1]. Zhang H, et al. CU06-1004 enhances vascular integrity and improves cardiac remodeling by suppressing edema and inflammation in myocardial ischemia-reperfusion injury. Exp Mol Med. 2022 Jan;54(1):23-34.

[2]. Bae CR, et al. Correction: The endothelial dysfunction blocker CU06-1004 ameliorates choline-deficient L-amino acid diet-induced non-alcoholic steatohepatitis in mice. PLoS One. 2021 Apr 5;16(4):e0249747.

[3]. Kim Y, et al. Efficacy of CU06-1004 via regulation of inflammation and endothelial permeability in LPS-induced acute lung injury. J Inflamm (Lond). 2023 Apr 6;20(1):13.



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