# Loganin

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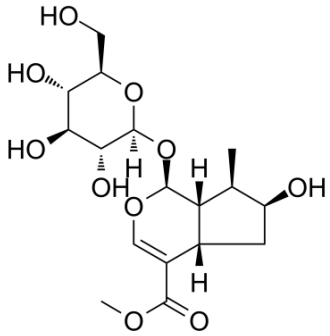
|---|---|---|---|
| **Cat. No.:** | HY-N0512 | | |
| **CAS No.:** | 18524-94-2 | | |
| **Molecular Formula:** | $C_{17}H_{26}O_{10}$ | | |
| **Molecular Weight:** | 390.38 | | |
| **Target:** | Apoptosis | | |
| **Pathway:** | Apoptosis | | |
| **Storage:** | Powder | -20°C | 3 years |
| | | 4°C | 2 years |
| | In solvent | -80°C | 6 months |
| | | -20°C | 1 month |



## SOLVENT & SOLUBILITY

**In Vitro**

DMSO : ≥ 100 mg/mL (256.16 mM)

* "≥" means soluble, but saturation unknown.

| Preparing Stock Solutions | Concentration / Solvent / Mass | 1 mg | 5 mg | 10 mg |
|---|---|---|---|---|
| | 1 mM | 2.5616 mL | 12.8080 mL | 25.6161 mL |
| | 5 mM | 0.5123 mL | 2.5616 mL | 5.1232 mL |
| | 10 mM | 0.2562 mL | 1.2808 mL | 2.5616 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 (6.40 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (6.40 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (6.40 mM); Clear solution

## BIOLOGICAL ACTIVITY

**Description**

Loganin, a major iridoid glycoside obtained from Corni fructus, has been shown to have anti-inflammatory and anti-shock effects. Loganin exhibits an anti-inflammatory effect in cases of AP and its pulmonary complications through inhibition of NF-κB activation.

## REFERENCES

[1]. Kim MJ, et al. Loganin protects against pancreatitis by inhibiting NF-κB activation. Eur J Pharmacol. 2015 Oct 15;765:541-50.

[2]. Tsai WH, et al. Ba-Wei-Di-Huang-Wan through its active ingredient loganin counteracts substance P-enhanced NF-κB/ICAM-1 signaling in rats with bladder hyperactivity. Neurourol Urodyn. 2015 Aug 19.



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