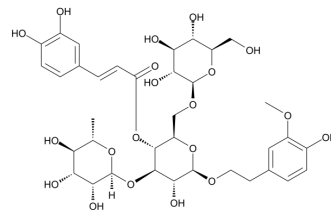


## Cistanoside A

|                           |  |
|---------------------------|--|
| <b>Cat. No.:</b>          | HY-N0023   |
| <b>CAS No.:</b>           | 93236-42-1   |
| <b>Molecular Formula:</b> | C <sub>36</sub> H <sub>48</sub> O <sub>20</sub>  |
| <b>Molecular Weight:</b>  | 800.75   |
| <b>Target:</b>            | NO Synthase  |
| <b>Pathway:</b>           | Immunology/Inflammation  |
| <b>Storage:</b>           | -20°C, sealed storage, away from moisture and light<br>* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light) |



### SOLVENT & SOLUBILITY

| <b>In Vitro</b>           | DMSO : 100 mg/mL (124.88 mM; Need ultrasonic)   |           |           |               |  |  |      |      |       |                           |      |           |           |            |      |           |           |           |       |           |           |           |
|---------------------------|---|-----------|-----------|---------------|--|--|------|------|-------|---------------------------|------|-----------|-----------|------------|------|-----------|-----------|-----------|-------|-----------|-----------|-----------|
|                           | <table border="1"> <thead> <tr> <th rowspan="2">Solvent</th> <th rowspan="2">Mass</th> <th colspan="3">Concentration</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Preparing Stock Solutions</td> <td>1 mM</td> <td>1.2488 mL</td> <td>6.2441 mL</td> <td>12.4883 mL</td> </tr> <tr> <td>5 mM</td> <td>0.2498 mL</td> <td>1.2488 mL</td> <td>2.4977 mL</td> </tr> <tr> <td>10 mM</td> <td>0.1249 mL</td> <td>0.6244 mL</td> <td>1.2488 mL</td> </tr> </tbody> </table> | Solvent   | Mass      | Concentration |  |  | 1 mg | 5 mg | 10 mg | Preparing Stock Solutions | 1 mM | 1.2488 mL | 6.2441 mL | 12.4883 mL | 5 mM | 0.2498 mL | 1.2488 mL | 2.4977 mL | 10 mM | 0.1249 mL | 0.6244 mL | 1.2488 mL |
| Solvent                   | Mass  |           |           | Concentration |  |  |      |      |       |                           |      |           |           |            |      |           |           |           |       |           |           |           |
|                           |   | 1 mg      | 5 mg      | 10 mg         |  |  |      |      |       |                           |      |           |           |            |      |           |           |           |       |           |           |           |
| Preparing Stock Solutions | 1 mM  | 1.2488 mL | 6.2441 mL | 12.4883 mL    |  |  |      |      |       |                           |      |           |           |            |      |           |           |           |       |           |           |           |
|                           | 5 mM  | 0.2498 mL | 1.2488 mL | 2.4977 mL     |  |  |      |      |       |                           |      |           |           |            |      |           |           |           |       |           |           |           |
|                           | 10 mM   | 0.1249 mL | 0.6244 mL | 1.2488 mL     |  |  |      |      |       |                           |      |           |           |            |      |           |           |           |       |           |           |           |
|                           | Please refer to the solubility information to select the appropriate solvent.   |           |           |               |  |  |      |      |       |                           |      |           |           |            |      |           |           |           |       |           |           |           |
| <b>In Vivo</b>            | <ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline<br/>Solubility: ≥ 2.5 mg/mL (3.12 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline)<br/>Solubility: ≥ 2.5 mg/mL (3.12 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil<br/>Solubility: ≥ 2.5 mg/mL (3.12 mM); Clear solution</li> </ol>  |           |           |               |  |  |      |      |       |                           |      |           |           |            |      |           |           |           |       |           |           |           |

### BIOLOGICAL ACTIVITY

|                    |   |
|--------------------|---|
| <b>Description</b> | Cistanoside A is a phenylethanoid isolated from <i>Cistanche deserticola</i> , reduces NO accumulation, but shows no effect on iNOS mRNA, iNOS protein levels or iNOS activity. Anti-inflammatory effect <sup>[1]</sup> . |
|--------------------|---|

### REFERENCES

[1]. Xiong Q, et al. Inhibition of nitric oxide by phenylethanoids in activated macrophages. *Eur J Pharmacol.* 2000 Jul 14;400(1):137-44.

---

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA