**Coixol**

- **Cat. No.**: HY-N0936
- **CAS No.**: 532-91-2
- **Molecular Formula**: C₈H₇NO₃
- **Molecular Weight**: 165.15
- **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**

<table>
<thead>
<tr>
<th>Solvent</th>
<th>Mass (mg/mL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMSO</td>
<td>≥ 30 mg/mL (181.65 mM)</td>
</tr>
</tbody>
</table>

*“≥” means soluble, but saturation unknown.*

**Preparing Stock Solutions**

<table>
<thead>
<tr>
<th>Concentration</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>6.0551 mL</td>
<td>30.2755 mL</td>
<td>60.5510 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>1.2110 mL</td>
<td>6.0551 mL</td>
<td>12.1102 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.6055 mL</td>
<td>3.0276 mL</td>
<td>6.0551 mL</td>
</tr>
</tbody>
</table>

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

**BIOLOGICAL ACTIVITY**

**Description**

Coixol is a natural product extracted from Coix Lachryma-Jobi var. ma-yuen. IC₅₀ value: Target: In vitro: Confluent NCI-H292 cells were pretreated with oleic acid, linoleic acid, glyceryl trilinoleate, beta-stigmasterol or coixol for 30 min and then stimulated with PMA (phorbol 12-myristate 13-acetate), EGF (epidermal growth factor) or TNF-α (tumor necrosis factor-α) for 24 h. Coixol inhibited the expression of MUC5AC mucin gene and production of MUC5AC mucin protein, induced by EGF or TNF-α from NCI-H292 cells; Coixol decreased PMA-induced MUC5AC mucin secretion from NCI-H292 cells [1]. BTC-6 cells were incubated in 2 mM and 20 mM glucose in the presence of coixol (200 μM) for 60 min at 37°C in Krebs-Ringer bicarbonate buffer. Decreased insulin staining was observed by coixol at 20 mM glucose (bottom) suggest that coixol stimulated insulin secretion at high glucose concentrations [2].

**REFERENCES**

[1]. Lee HJ, et al. Suppressive effects of coixol, glyceryl trilinoleate and natural products derived from Coix Lachryma-Jobi var. ma-yuen on gene expression,