L-Ascorbic acid sodium salt

Cat. No.: HY-B0166A
CAS No.: 134-03-2
Molecular Formula: C₆H₇NaO₆
Molecular Weight: 198.11
Target: Reactive Oxygen Species; Apoptosis
Pathway: Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB; Apoptosis
Storage: 4°C, protect from light
* In solvent: -80°C, 6 months; -20°C, 1 month (protect from light)

SOLVENT & SOLUBILITY

In Vitro

<table>
<thead>
<tr>
<th>Solvent</th>
<th>Concentration</th>
<th>Mass</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>H₂O</td>
<td>100 mg/mL</td>
<td>(504.77 mM; Need ultrasonic)</td>
<td>5.0477 mL</td>
<td>25.2385 mL</td>
<td>50.4770 mL</td>
</tr>
<tr>
<td>DMSO</td>
<td>1 mg/mL</td>
<td>(5.05 mM; Need ultrasonic)</td>
<td>1.0095 mL</td>
<td>5.0477 mL</td>
<td>10.0954 mL</td>
</tr>
</tbody>
</table>

Preparation of Stock Solutions

<table>
<thead>
<tr>
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<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
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</tbody>
</table>

In Vivo

Tg rats treated with sodium L-ascorbate show a higher incidence of carcinoma (29.6%), compared to those without sodium L-ascorbate (15.4%). Independent of the sodium L-ascorbate treatment, transgenic rats exhibit various kinds of malignant tumors in various organs[3]. After 12 weeks of PEITC-treatment, both simple hyperplasia and papillary or nodular (PN) hyperplasia have developed in all animals, but the majority of these lesions have disappeared at week 48, irrespective of the sodium L-ascorbate-treatment. The same lesions after 24 weeks of PEITC-treatment have progressed to dysplasia and carcinoma, in a small number of cases by week 48, but enhancement by the sodium L-ascorbate-treatment is evident only with simple hyperplasias and PN hyperplasias in rats[4].
A total of 40 7-week-old male Tg rats are divided into 2 groups. Twenty-seven (group 1) and 13 (group 2) rats are given a powdered MF diet with or without 5% sodium L-ascorbate, respectively. Similarly, a total of 42 7-week-old male Non-tg rats are divided into 2 groups, and 30 (group 3) and 12 (group 4) animals are given a diet with or without 5% sodium L-ascorbate, respectively.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

**REFERENCES**


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

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