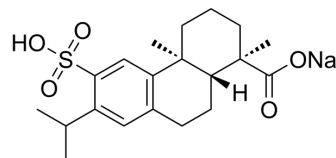


## Ecabet sodium

|                           |  |
|---------------------------|--|
| <b>Cat. No.:</b>          | HY-B0691A  |
| <b>CAS No.:</b>           | 86408-72-2   |
| <b>Molecular Formula:</b> | C <sub>20</sub> H <sub>27</sub> NaO <sub>3</sub> S   |
| <b>Molecular Weight:</b>  | 402.48   |
| <b>Target:</b>            | Reactive Oxygen Species; Bacterial; Apoptosis  |
| <b>Pathway:</b>           | Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB; Anti-infection; Apoptosis   |
| <b>Storage:</b>           | 4°C, sealed storage, away from moisture<br>* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture) |



### SOLVENT & SOLUBILITY

| <b>In Vitro</b>          | DMSO : 100 mg/mL (248.46 mM; Need ultrasonic)  |                          |           |            |            |       |      |           |            |            |      |           |           |           |       |           |           |           |
|--------------------------|--|--------------------------|-----------|------------|------------|-------|------|-----------|------------|------------|------|-----------|-----------|-----------|-------|-----------|-----------|-----------|
|                          | <table border="1"> <thead> <tr> <th rowspan="2">Solvent<br/>Concentration</th> <th rowspan="2">Mass</th> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td>1 mM</td> <td>2.4846 mL</td> <td>12.4230 mL</td> <td>24.8460 mL</td> </tr> <tr> <td>5 mM</td> <td>0.4969 mL</td> <td>2.4846 mL</td> <td>4.9692 mL</td> </tr> <tr> <td>10 mM</td> <td>0.2485 mL</td> <td>1.2423 mL</td> <td>2.4846 mL</td> </tr> </tbody> </table>                            | Solvent<br>Concentration | Mass      | 1 mg       | 5 mg       | 10 mg | 1 mM | 2.4846 mL | 12.4230 mL | 24.8460 mL | 5 mM | 0.4969 mL | 2.4846 mL | 4.9692 mL | 10 mM | 0.2485 mL | 1.2423 mL | 2.4846 mL |
| Solvent<br>Concentration | Mass   |                          |           | 1 mg       | 5 mg       | 10 mg |      |           |            |            |      |           |           |           |       |           |           |           |
|                          |  | 1 mM                     | 2.4846 mL | 12.4230 mL | 24.8460 mL |       |      |           |            |            |      |           |           |           |       |           |           |           |
| 5 mM                     | 0.4969 mL  | 2.4846 mL                | 4.9692 mL |            |            |       |      |           |            |            |      |           |           |           |       |           |           |           |
| 10 mM                    | 0.2485 mL  | 1.2423 mL                | 2.4846 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 (6.21 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 (6.21 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil<br/>Solubility: ≥ 2.5 mg/mL (6.21 mM); Clear solution</li> </ol> |                          |           |            |            |       |      |           |            |            |      |           |           |           |       |           |           |           |

### BIOLOGICAL ACTIVITY

|                                     |  |
|-------------------------------------|--|
| <b>Description</b>                  | Ecabet sodium (TA-2711) is currently applied to some gastrointestinal disease by inhibiting the ROS production and improving Helicobacter pylori eradication <sup>[1]</sup> . Ecabet sodium reduces apoptosis <sup>[2]</sup> . |
| <b>IC<sub>50</sub> &amp; Target</b> | ROS production; Bacterial <sup>[1]</sup> ; Apoptosis <sup>[2]</sup>  |

### REFERENCES

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[1]. Wang Y, et al. Efficacy and safety of ecabet sodium as an adjuvant therapy for Helicobacter pylori eradication: a systematic review and meta-analysis. Helicobacter. 2014 Oct;19(5):372-81.

[2]. Rah YC, et al. Ecabet sodium alleviates neomycin-induced hair cell damage. Free Radic Biol Med. 2015 Dec;89:1176-83.

[3]. Kenji Kusumoto, et al. Ecabet sodium inhibits Helicobacter pylori lipopolysaccharide-induced activation of NADPH oxidase 1 or apoptosis of guinea pig gastric mucosal cells. Am J Physiol Gastrointest Liver Physiol

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

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