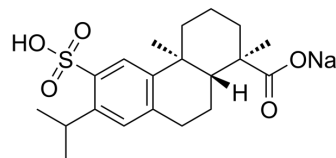


## Ecabet sodium

<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>5</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 * 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)					
	<b>Preparing Stock Solutions</b>	<b>Solvent</b>	<b>Mass</b>	<b>1 mg</b>	<b>5 mg</b>	<b>10 mg</b>
		<b>Concentration</b>				
		<b>1 mM</b>		2.4846 mL	12.4230 mL	24.8460 mL
		<b>5 mM</b>		0.4969 mL	2.4846 mL	4.9692 mL
	<b>10 mM</b>		0.2485 mL	1.2423 mL	2.4846 mL	
Please refer to the solubility information to select the appropriate solvent.						
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (6.21 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.21 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.21 mM); Clear solution					

### 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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