



(12) **United States Patent**  
**Metcalf et al.**

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(54) **SINCALIDE FORMULATIONS**

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(51) **Int. Cl.<sup>7</sup>** ..... **A61K 9/00**

(52) **U.S. Cl.** ..... **424/400; 514/1.65; 514/18; 514/19; 514/951**

(58) **Field of Search** ..... **424/400; 514/18, 514/19, 1.65, 951**

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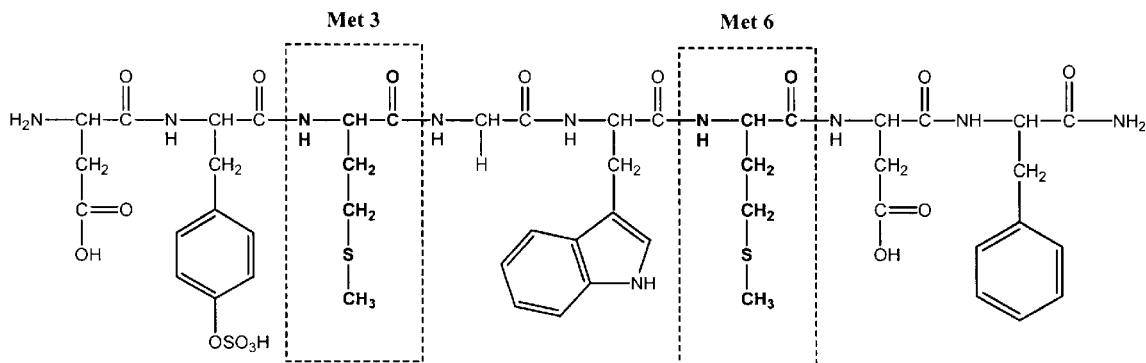
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(57) **ABSTRACT**

The invention features sincalide formulations that include an effective amount of sincalide, a bulking agent/tonicity adjuster, a stabilizer, a surfactant, a chelator, and a buffer. The invention also features kits and methods for preparing improved sincalide formulations, as well as methods for treating, preventing, and diagnosing gall bladder-related disorders using sincalide formulations.

**108 Claims, 12 Drawing Sheets**



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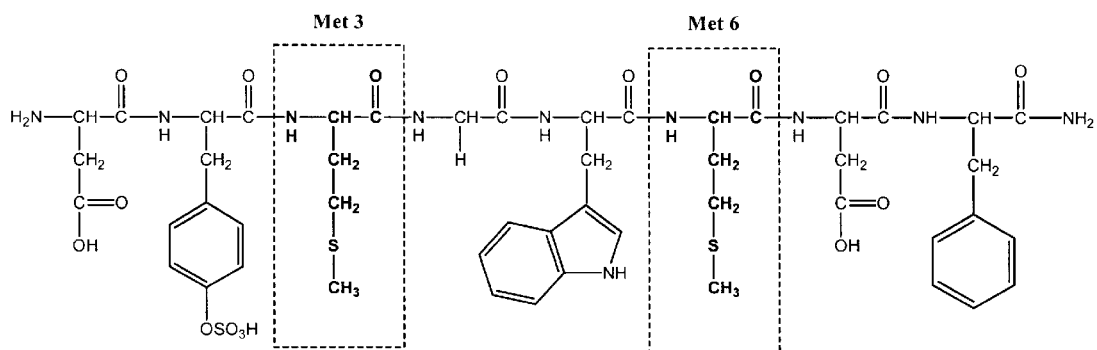


FIG. 1

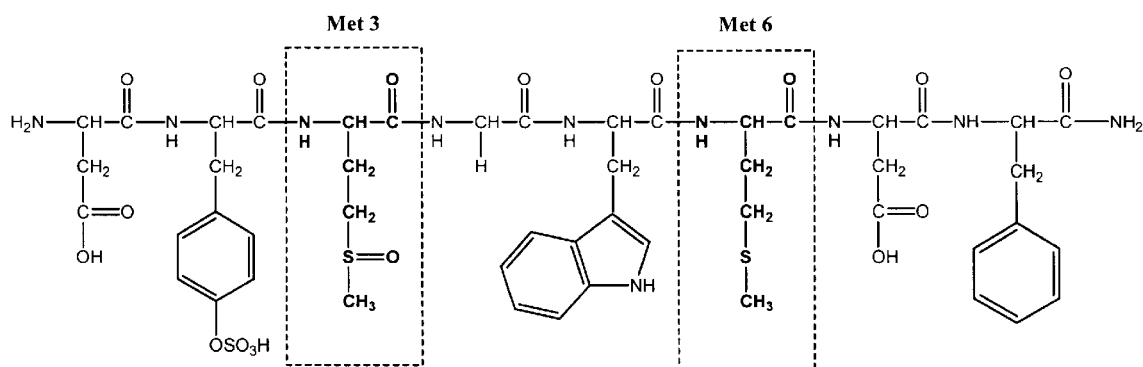


FIG. 2

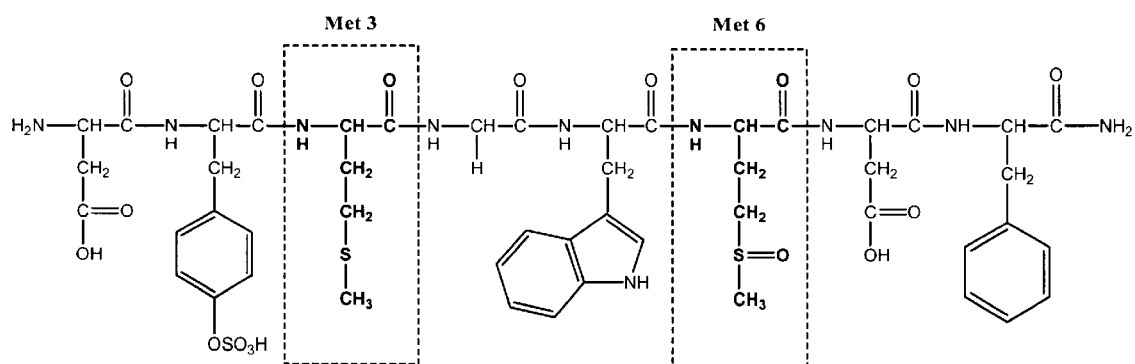


FIG. 3

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