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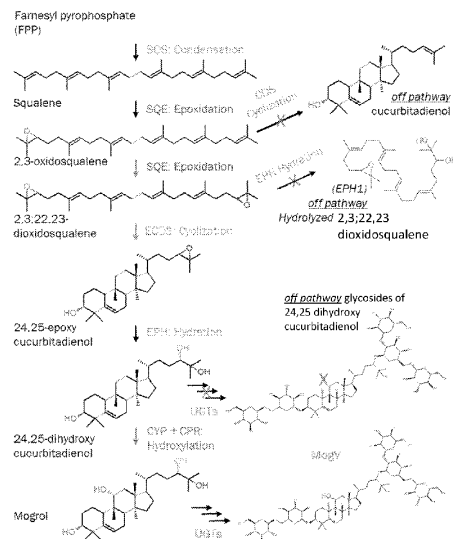
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(54) Title: ENZYMES, HOST CELLS, AND METHODS FOR PRODUCING MOGROSIDES

FIG. 1A



(57) Abstract: The present disclosure relates to microbial cells, engineered enzymes, and methods for producing mogrol or mogrosin. The method comprises providing a microbial cell producing squalene and expressing a biosynthetic pathway that converts squalene to the mogrol or mogrosin. In various embodiments, the methods disclosed herein produce squalene derivatives with less than about 40% by weight of off-pathway products cucurbitadienol, hydrolyzed 2,3:22,23-dioxidosqualene, and glycosylated 24,25-dihydroxycucurbitadienol.

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