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(54) Title: OCCIDIOFUNGIN ANALOGS AND METHODS OF MAKING AND USING

(57) Abstract: The subject invention pertains to methods of synthesizing occidiofungin analogs using a variant of occidiofungin which contains an aspartic acid (ASP7) or glutamic acid at position 7 (GLU7) instead of the previously characterized asparagine at position 7. Selective semi-synthetic analogs produced using the ASP7 and GLU7 variants displayed improved antifungal activity compared to ASN7 occidiofungin variants. The ASP7 and GLU7 variants of occidiofungin and compositions thereof can be used for treating fungal and parasitic infections as well as cancer.

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