# Spectrum for 

# Palladium Catalyzed Sequential Arylation and Allylic Alkylation of Highly Functionalized Ketones: A Concise Synthesis of Mesembrine 

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[^0]



Compound 12






Compound 7

SL6ロ9＇に—
68เ92＇こ
BロロLて
816Lて＇こー
を8ا62
－ロOIE＇己

60ロこら こ
si62s＇ $\qquad$


Gl6टG＇G——


$-$







Compound 10


## Compound 9



LCヤ $80^{\circ} \mathrm{G}$










Compound 17



SロऽIS G－


9「L6S＇9—

6ロ9G2 L
b000＇L





Compound 18
(

| $38$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |

(8)

udd





## Compound 22







Compound 19




2「188＇9

ごoge $\llcorner$
［PJortul $-\frac{\mathrm{E}}{\mathrm{O}}$




9189 ${ }^{\circ} \varepsilon-$
$8186 / \varepsilon \square$
92008 -
टE9L8' $\varepsilon$


Compound 24





E8DOZ G
$\angle V 8 \angle Z$.


Compound 26


$$
\text { 26૬• } \varepsilon € \tau
$$

06 T＇8 8 D $\qquad$ 2b0．6b




|  |  |  |  |  |
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