$$
\begin{aligned}
\Psi_{161} &= C_1 \left(|0d2d\rangle + |2d0d\rangle - i\,|d0d2\rangle - i\,|d2d0\rangle\right) \\
&\quad + C_2 \left(-|02dd\rangle - i\,|0dd2\rangle + |20dd\rangle + i\,|2dd0\rangle + i\,|d02d\rangle - i\,|d20d\rangle + |dd02\rangle - |dd20\rangle\right)
\end{aligned}
$$

$$
C_1 = -\left(\frac{1}{4}\right) + \frac{i}{4}
$$

$$
C_2 = -\left(\frac{1}{4}\right)
$$