

TABLE 1. Kinetic parameters for the hydrolysis of chlorpyrifos by the variants

| OPH variant | K_m (mM) | k_{cat} (s^{-1}) | k_{cat}/K_m ($\text{M}^{-1} \text{s}^{-1}$) |
|-------------|------------|--------------------------------------|--|
| Wild type | 0.26 | 73.8 | 2.8×10^5 |
| A1030 | 0.51 | 2,610 | 5.1×10^6 |
| A1467 | 0.27 | 1,430 | 5.3×10^6 |
| B1368 | 0.22 | 21,500 | 9.8×10^7 |
| B2136 | 0.032 | 3,540 | 1.1×10^7 |
| B3561 | 0.14 | 30,900 | 2.2×10^8 |
| 22A11 | 0.19 | 20,100 | 1.0×10^8 |