Supplementary Information

FIG 1. **Purification of recombinant TgFPPS from insect cells and TgFO tachyzoites**. **A**, Coomassie blue staining of purified TgFPPS protein obtained by using Ni-NTA agarose chromatography. Molecular markers are indicated at the *left side* . **B**, Western blot analysis showing that the purified TgFPPS could be recognized by the affinity purified anti-TgFPPS antibody.

FIG. 2. **The fitted IC_{50} data curves for compound 22, 2 and 18.** For the calculation of the IC_{50}, the % of growth inhibition was plotted as a function of drug concentration by fitting the values to the rectangular hyperbolic function:

$$I = \frac{I_{max} C}{IC_{50} + C}$$

where I is the percent inhibition, I_{max} = 100% inhibition, C is the concentration of the inhibitor, and IC_{50} is the concentration for 50% growth inhibition. The regression analyses were performed using Sigma Plot 7.0. The activity of the TgFPPS was assayed in the presence of bisphosphonate inhibitors in mixtures containing 10 mM Hepes (pH 7.4), 1 mM $MgCl_2$, 2 mM dithiothreitol, 47 µM [4-^{14}C]IPP (10 µCi/µmol), 13 µM FPP, and 160 ng of protein in a final volume of 100 µl. Reactions were incubated for 30 min at 37 °C, and the prenyl product was extracted and measured by liquid scintillation counting.

Figure 1

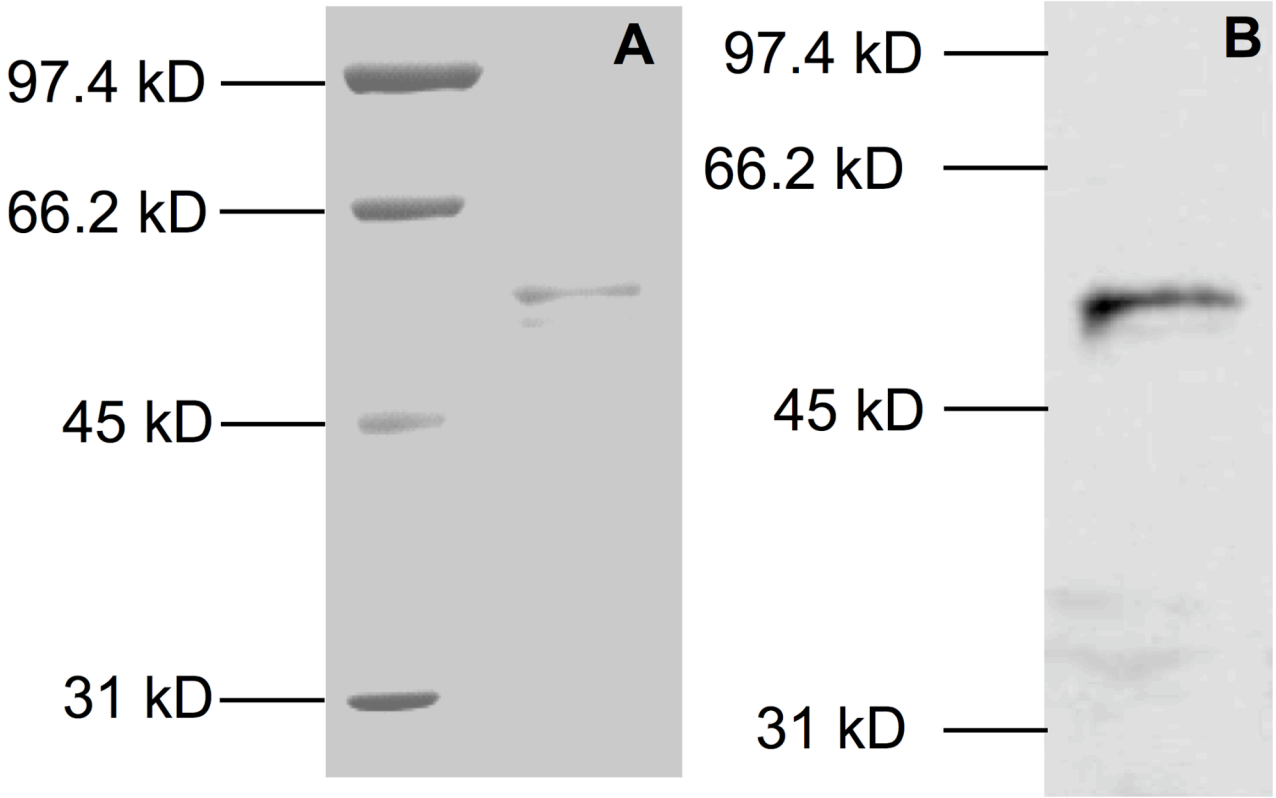


Figure 2A

Compound 1 (IC_{50}= 22 nM)

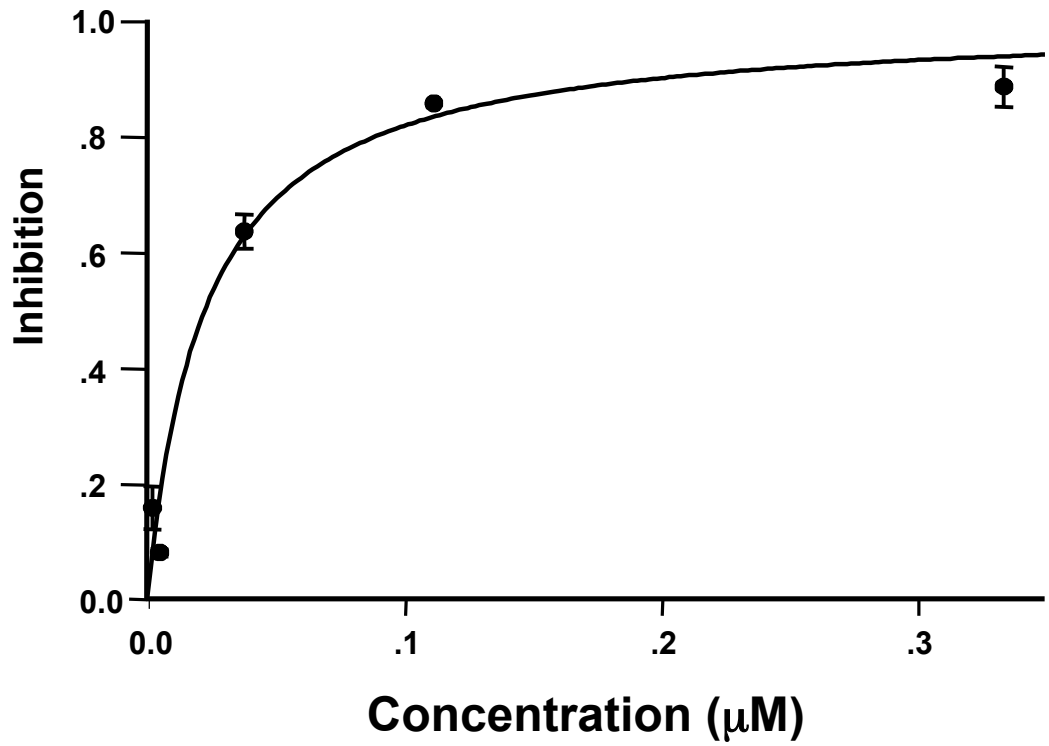


Figure 2B

Compound 2 (IC_{50}= 74 nM)

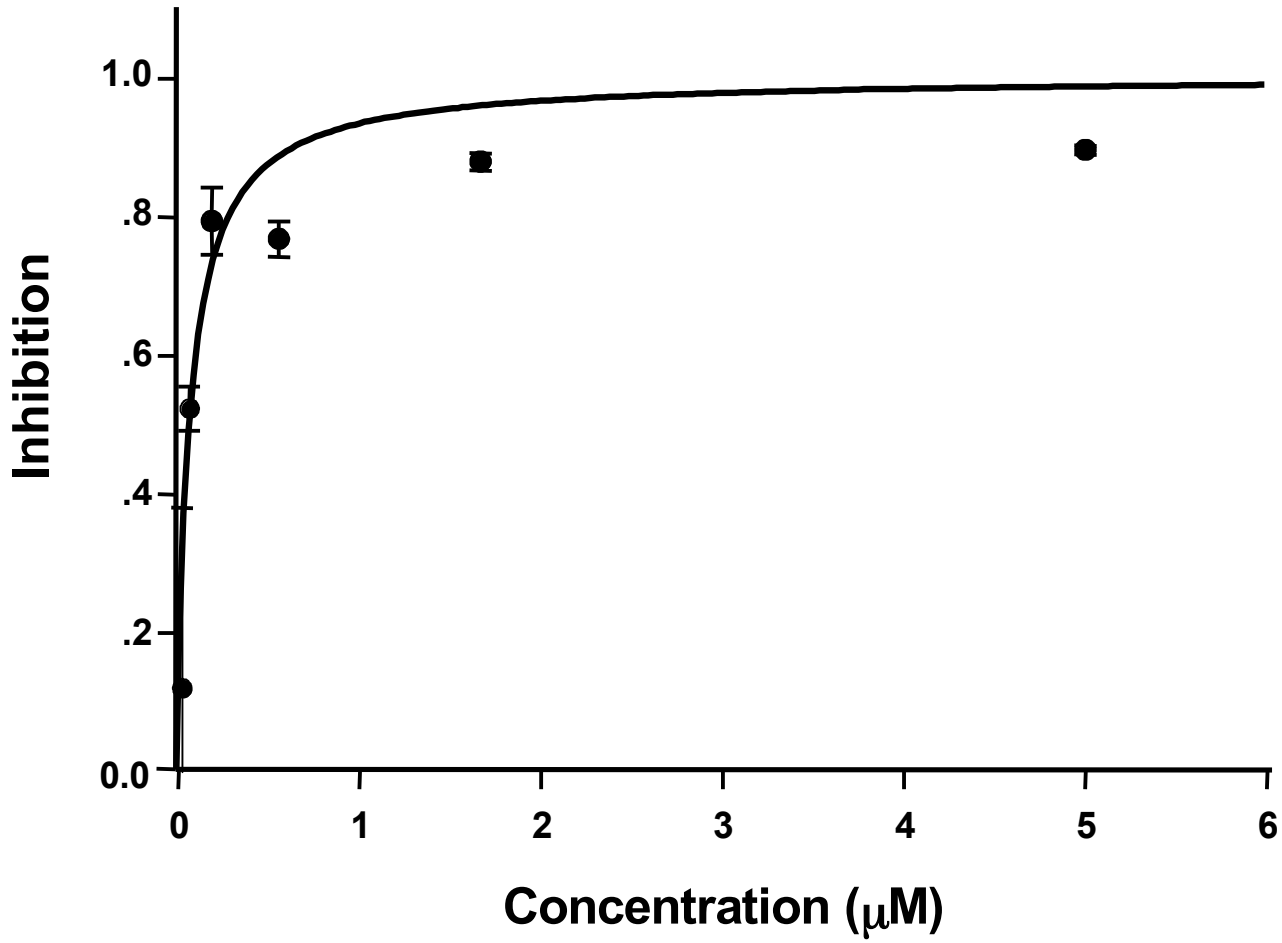
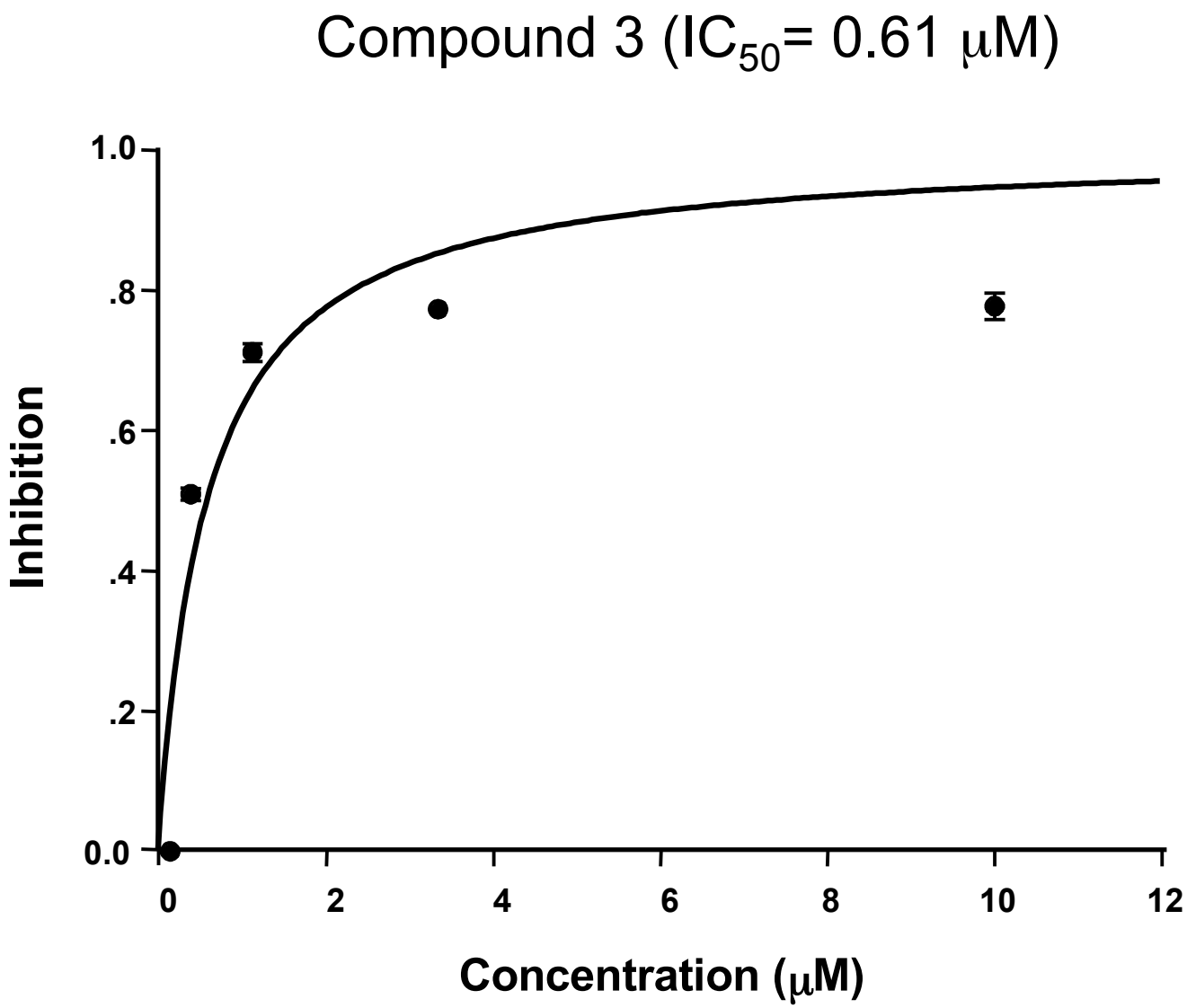


Figure 2C


Compound 3 (IC_{50}= 0.61 μM)
1.0
.8
.6
.4
.2
0.0
Inhibition
0
2
4
6
8
10
12
Concentration (μM)