

**Kinetically Controlled Drug Resistance:
how *Penicillium brevicompactum* survives mycophenolic acid**
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SUPPLEMENTAL DATA

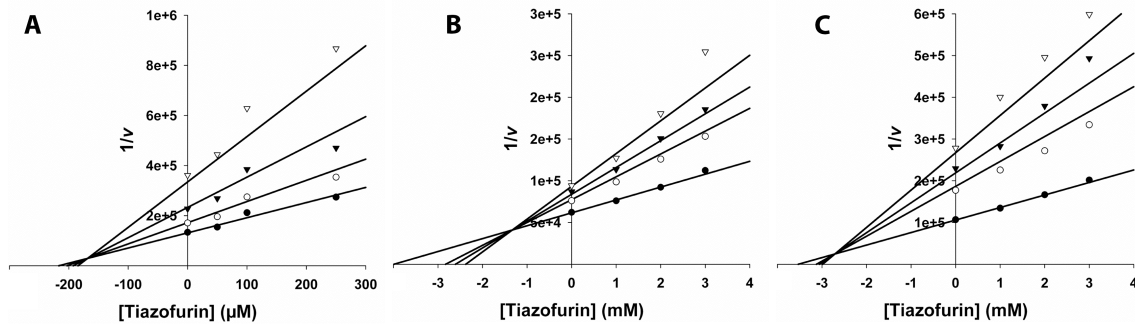


FIGURE S1. Multiple inhibitor experiments. The interaction of tiazofurin and ADP is used to probe the equilibrium between $E\text{-XMP}^*_{\text{open}}$ and $E\text{-XMP}^*_{\text{closed}}$ as described in Methods. The values of the interaction constant α were determined by the fit to equation 6. The Dixon plots ($1/v$ vs. tiazofurin at increasing concentrations of ADP) are shown for inspection only. A. *AnImdA*; B. *PbIMPDH-A*; C. *PbIMPDH-B*. The concentrations of tiazofurin used are as follows: *AnImdA*: 0, 50, 100, 250 μM ; *PbIMPDH-A* and *PbIMPDH-B*: 0, 1, 2, 3 mM. The concentrations of ADP used for *AnImdA* are: 0 (closed circles), 1 (open circles), 2.5 (closed triangles), 5 (open triangles) mM. The concentrations of ADP used for *PbIMPDH-A* and *PbIMPDH-B* are: 0 (closed circles), 2.5 (open circles), 3.5 (closed triangles), 5 mM (open triangles). The inhibition constants and α value for each enzyme are listed in Table 5.2. The inhibitors are slightly synergistic for *AnImdA* and *PbIMPDH-B* and more synergistic for *PbIMPDH-A*.

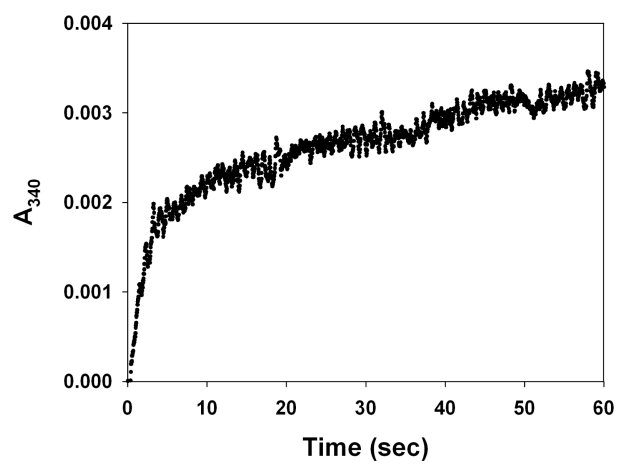


FIGURE S2. Burst of NADH production in Arg429Ala mutant of *PbIMPDH-B*.