

Supplementary Information for

Kinetic and Chemical Mechanism of α -Isopropylmalate Synthase from
Mycobacterium tuberculosis

Luiz Pedro S. de Carvalho and John S. Blanchard*

Figure S1. Initial Velocity Patterns of *Mt*IPMS-catalyzed reaction. α -KIV was varied (77 μ M, 100 μ M, 143 μ M, 250 μ M, and 1000 μ M) at four fixed AcCoA concentrations (91 μ M, 125 μ M, 200 μ M, and 500 μ M).

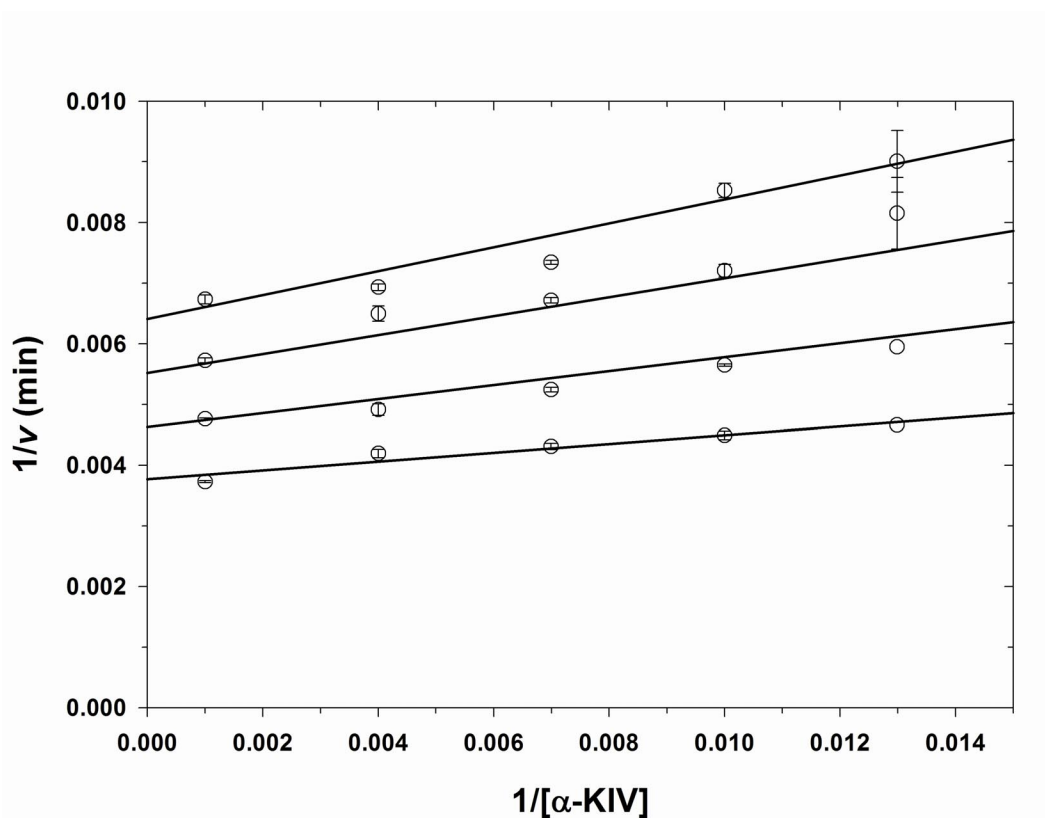


Figure S2. Saturation curve for AcCoA in the presence of fixed saturating concentration of pyruvate. Open circles represent the data and the solid line the fit of the data to eq. 2 (for linear substrate inhibition). The inset shows the replot of the data in double reciprocal form. Visual analysis indicates a clear upward curvature at lower concentrations of AcCoA.

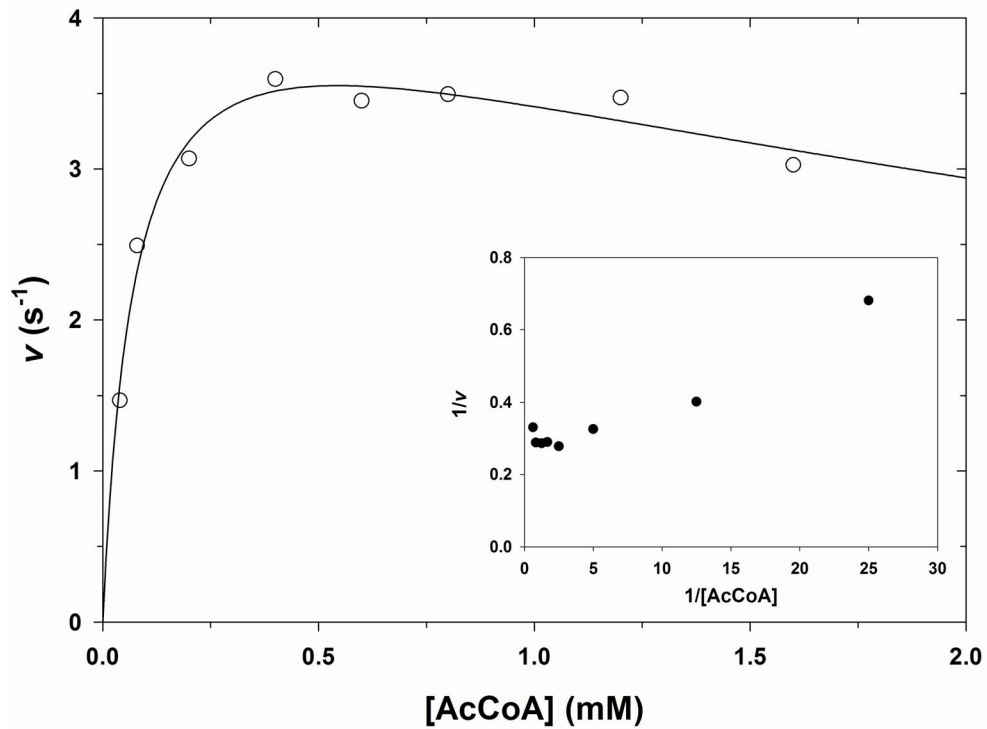


Figure S3. Saturation curve for α -ketovalerate in the presence of fixed saturating concentration of AcCoA. Open circles represent the data and the solid line the fit of the data to eq. 2 (for linear substrate inhibition). The inset shows the replot of the data in double reciprocal form. Visual analysis indicates a clear downward curvature at lower concentrations of α -ketovalerate.

