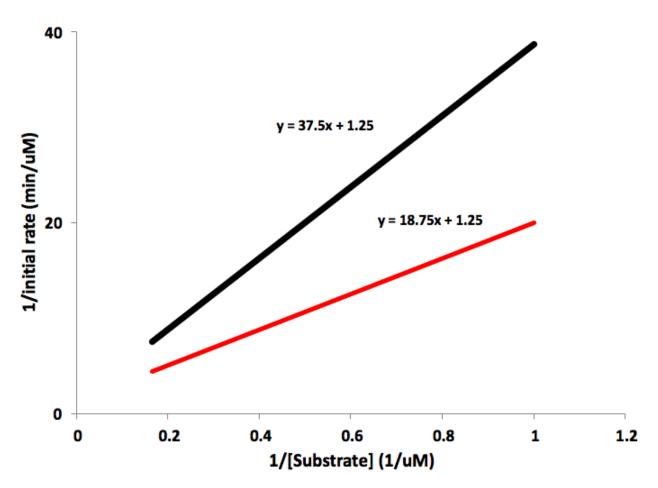
Image that you collect the following kinetic data in the *absence of inhibitor (red line)* and in the presence of <u>1 mM inhibitor (black line</u>).



1. Does the inhibitor bind to the free enzyme, the enzyme-substrate complex, or both the free enzyme and the enzyme-substrate complex?

2. Calculate the equilibrium dissociation constant for the inhibitor to free enzyme and/or enzymesubstrate complex as indicted in question #1? Include units.