

Figure S6. Aminoacylation of $tRNA^{Ile}$ with purified isoleucine.

A, $k_{\rm obs}$ in tRNA^{Ile} aminoacylation by IleRS was obtained with 30 mM purified (\bullet) or unpurified (\circ) isoleucine to test if the purification procedure introduced contaminants that may inhibit enzymatic activity. The *inset* shows the steady state portion of the progress curve. B, $k_{\rm obs}$ in tRNA^{Ile} aminoacylation was also obtained with a low and limiting isoleucine concentration –

B, k_{obs} in tRNA^{lle} aminoacylation was also obtained with a low and limiting isoleucine concentration – 0.01 mM purified (\bullet) or unpurified (\circ), to test the concentration of the purified isoleucine sample. WT IleRS was present at 20 nM concentration and tRNA^{lle} was present at 10 μ M concentration.