Figure S3. Presence of leucine in isoleucine samples may cause kinetic artefacts in overall editing reactions.

A, k_{obs} in AMP formation *vs* concentration of the unpurified commercial isoleucine that contains 0.38 % of leucine. The data is fit to the substrate inhibition equation:

$k_{obs} = k_{max} \times [S]/(K_m + [S] \times (1+[S]/K_i))$.

B, k_{obs} in AMP formation *vs* concentration of the purified isoleucine that contains $(3.5 \pm 0.7) \times 10^{-4}$ % leucine. The data is fit to the Michaelis-Menten equation: $k_{obs} = k_{max} \times [S]/(K_m + [S])$.