**Supplementary Figure 1.** Detection of ethyl acetate in the presence of 2.5 mM 4-nitrophenyl acetate as acyl donor and 2.5 mM ethanol as acyl acceptor. 0.0318 mg ml-1 Eat1 was used.

**Supplementary Figure 2.** Specific activity of Eat1 with different alcohols against their XLogP3 value. The XLogP3 value was derived from <https://pubchem.ncbi.nlm.nih.gov/>.