Evaluating Ylehd, a recombinant epoxide hydrolase from *Yarrowia lipolytica* as a potential biocatalyst for resolution of benzyl glycidyl ether

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Fig. S1: Substrate saturation plots

Curves indicate the substrate saturation of Ylehd with rac-PGE(a), (R)-PGE(b), (S)-PGE(c), rac-BGE(d), (R)-BGE(e) and (S)-BGE(f)
Figure S2: Resolution of BGE

Racemic BGE (dotted), Racemic BGE + Ylehd after 20 minutes of reaction (solid)
Fig. S3: Binding energy of compounds docked with Ylehd

3D coordinates of ligands were downloaded from Pubchem and docked flexibly with Ylehd protein model. Pubchem CID numbers are serially given as follows: 6378, 7834, 13853, 15036, 18126, 17858, 30664, 7835, 11164, 7276, 31217, 94247 and 12339.
Fig. S4: Distance between nucleophile and ligand

(a,b) Distance between nucleophile D140 and carbon atoms of the oxirane ring of (R)-BGE(a) and (S)-BGE(b) bound to Ylehd model after docking and energy minimisation.

(c,d) Distance trajectories for C1(red) and C2(black) from D140 in hydrated active site pocket of Ylehd bound to (R)-BGE(c) and (S)-BGE(d) during the course of simulations.