

## LCC'S MOLECULES OF THE MONTH High Quality Synthons for High Quality DELs

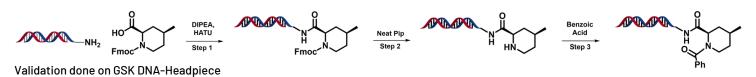
During 2022, we have collaborated with Anagenex (a leading practitioner in DEL-ML drug discovery) on a project which has involved the validation of LCC's DEL synthons. Our 'Molecules of the Month' this month highlights the results of this validation work, to further solidify how LCC's high-quality DEL synthons could positively impact your DEL libraries.

401 of our FmocAA's were tested on the validation protocol below. ~80% scaffolds showed >70% conversion, and ~20% scaffolds >50% on both the acylation onto DNA and benzoic acid capping steps. Additionally, ~80% scaffolds showed between 50 to 75% conversion of SM to final product after all 3 steps. We are now using the positive and negative data to guide future scaffold design and library synthesis to maintain a high-quality collection.

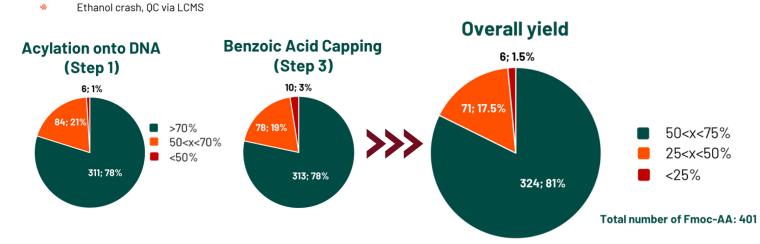
Are you looking for chirally-pure material with absolute stereochemistry determined and chemical purity of ≥95%?

Novel, sp³/3D-rich synthons with diverse exit vectors?

Validated synthons to optimize your DEL library synthesis? Look no further!



## 1. Installation of Fmoc Amino Acid 2. Fmoc deprotection 3. Capping with Benzoic Acid Suspend oligo at 1 mM in 250mM pH Resuspend oligo at 1mM in water Resuspend oligo at 1mM in 250mM pH 9.5 sodium borate buffer 9.5 sodium borate buffer Add 10% v/v neat piperidine Prepare acid premix (in order of Add 100 eq. benzoic acid (200mM addition) Vortex, allow to react at RT for 1hr 100 ea Fmoc Amino Acid BB Add 100 eq. DMT-MM (200mM in water) Ethanol crash (200mM DMA) Vortex, allow to react for 16hr at RT 100 eg DIPEA (200mM DMA) Ethanol crash, QC via LCMS 100 eq HATU (200mM DMA)



Add premix to oligo, vortex and allow

to react at RT overnight