

## Supplementary Material

### Diastereoselective Pictet-Spengler reactions of a tethered 2-

### Aminoimidazole

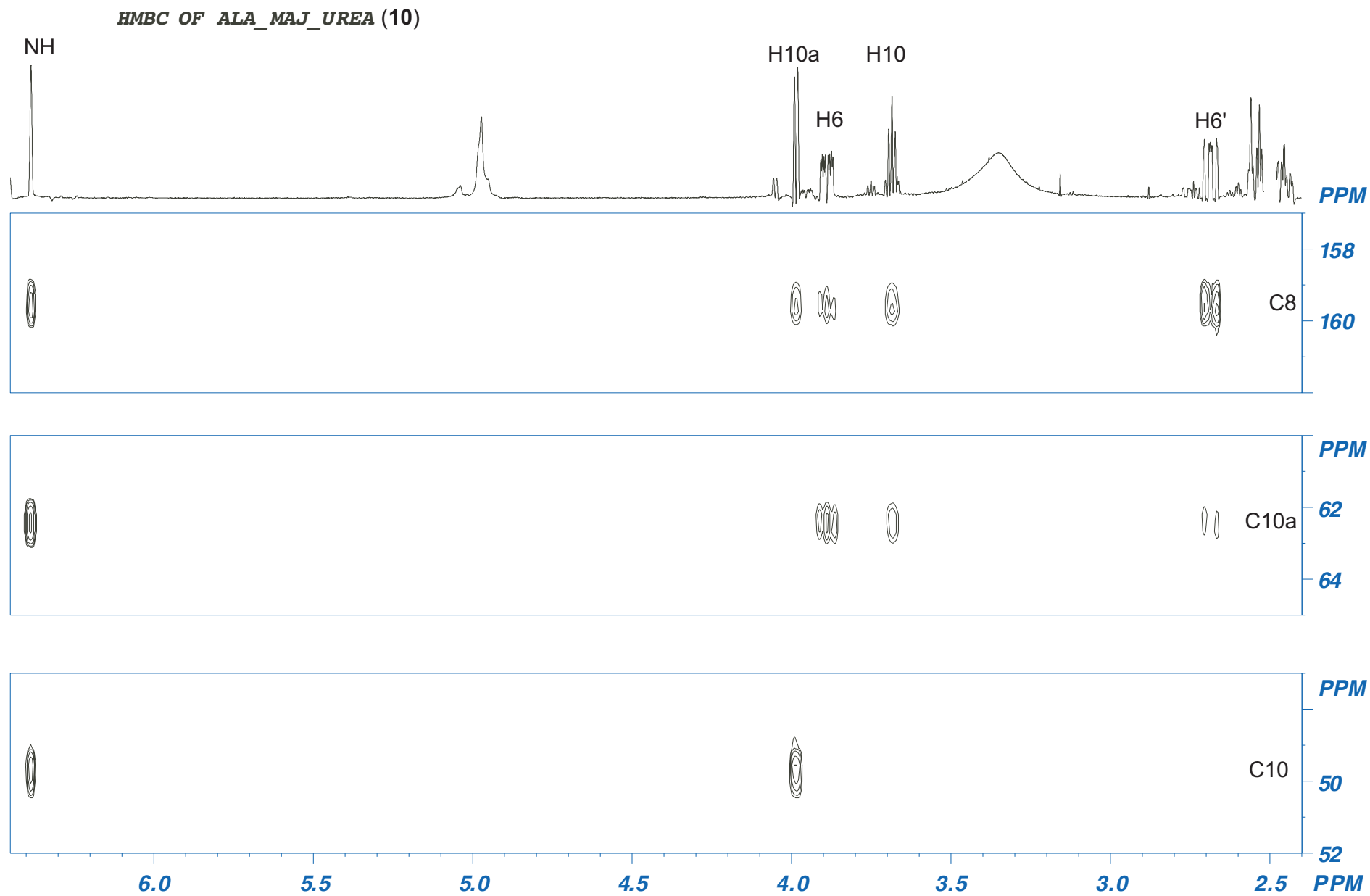
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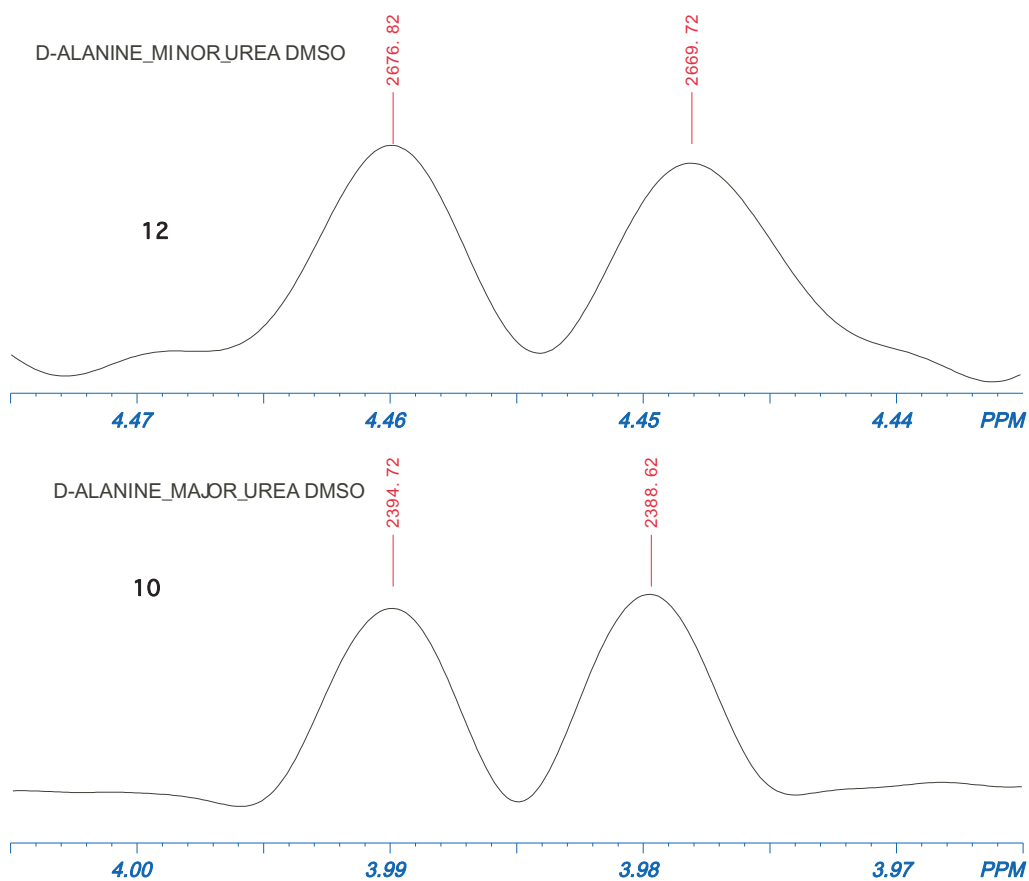
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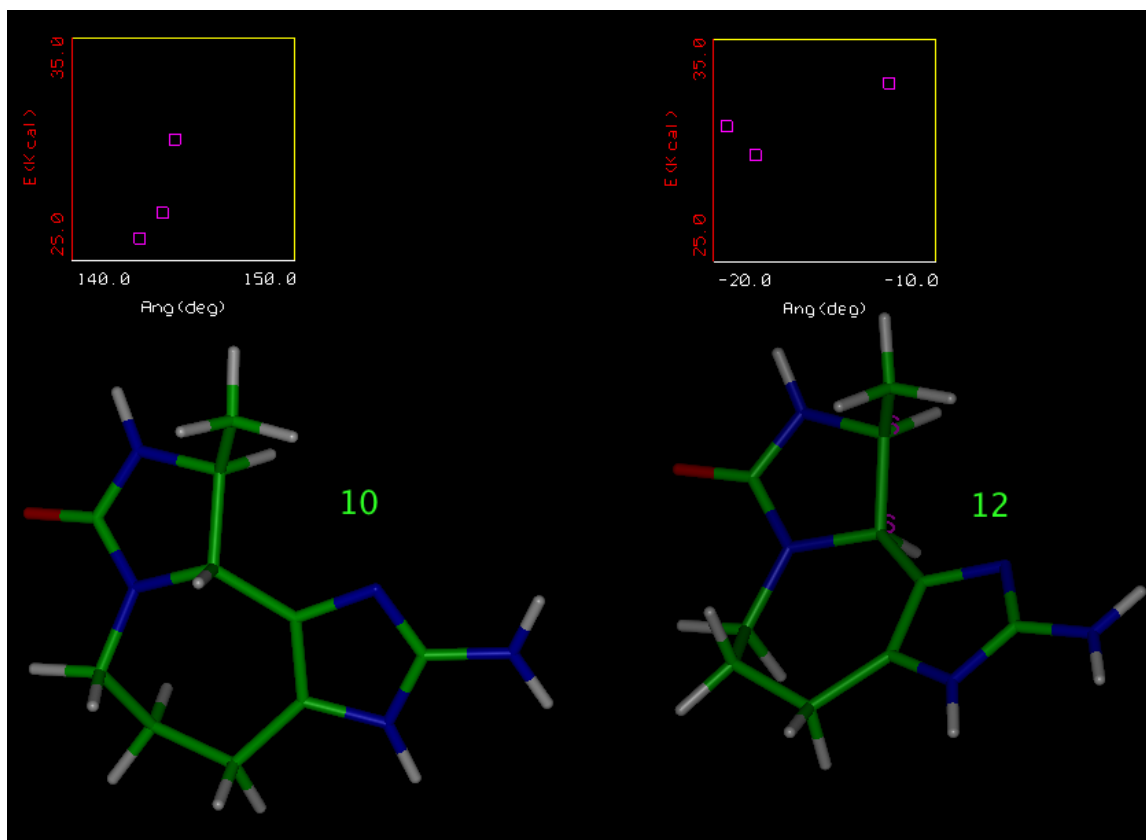
Figure S1-S4 and all  $^1\text{H}/^{13}\text{C}$  spectra of products



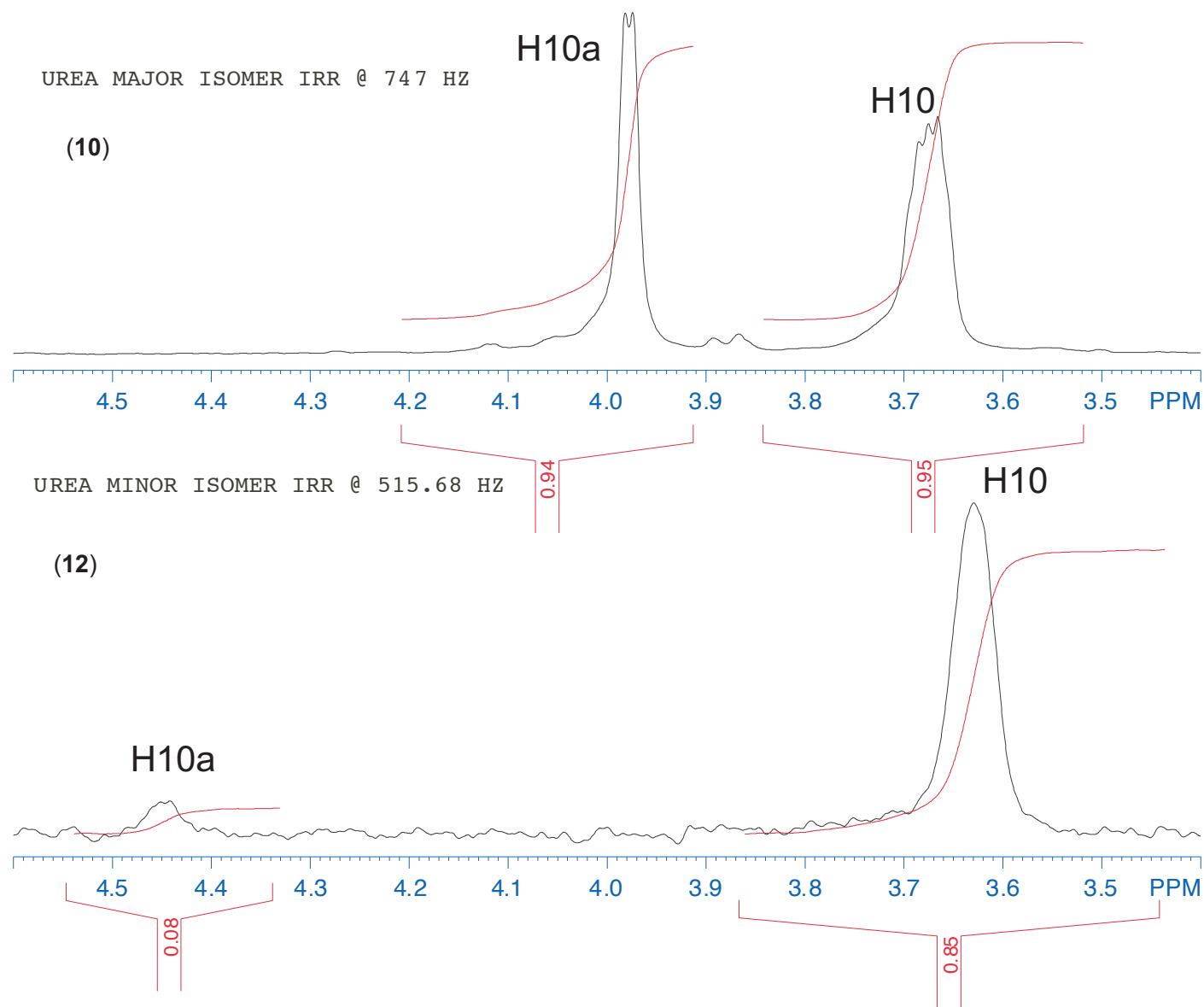
**Figure S1:** HMBC spectrum of **10** in d<sub>6</sub>-dmsol showing  $^3J$  and  $^2J$  couplings for C8, C10 and C10a



**Figure S2:** H10a NMR signal for compounds 10 (lower) and 12 (upper) for measurement of coupling constants



**Figure S3:** Conformational analysis of compounds 10 and 12. The insets show the C10-C10a dihedral angles that are possible.



**Figure S4:** 1D ROE (250 msec mixing time) experiments with low power irradiation on the C10-Me group resulted in enhancement of H10 and H10a. The integrals are relative to the methyl (-100%).

