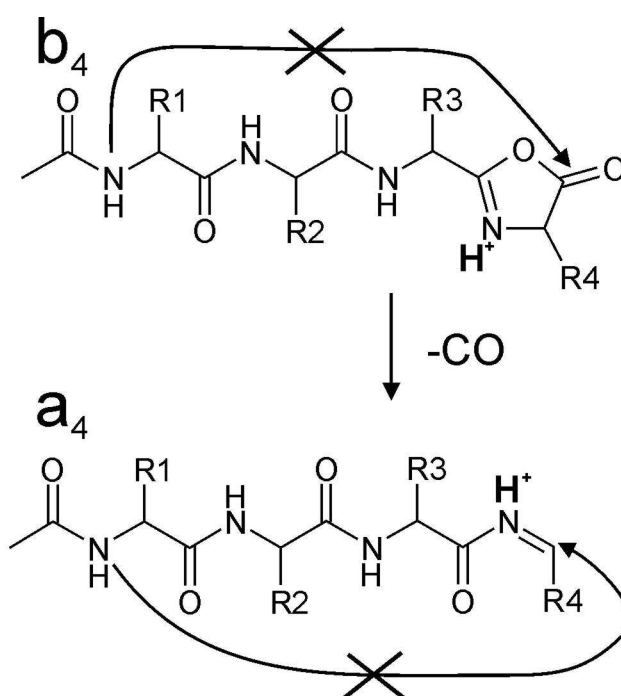


On the dynamics of fragment isomerization in collision-induced dissociation of peptides



Scheme S1. Reaction scheme illustrating how the protection of the N-terminus with an acetyl group prevents formation of cyclic structures for b_4 and a_4 . The favored sites of proton attachment are indicated.

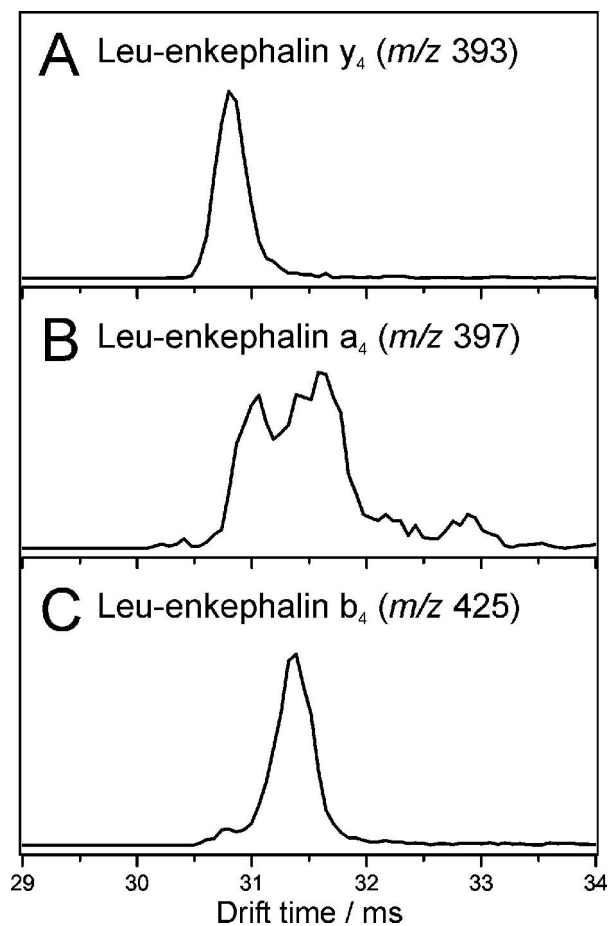


Figure S2. Drift time distributions of the most abundant CID fragment ions of protonated Leu-enkephalin: (A) y_4 , (B) a_4 and (C) b_4 . (230 V activation energy)

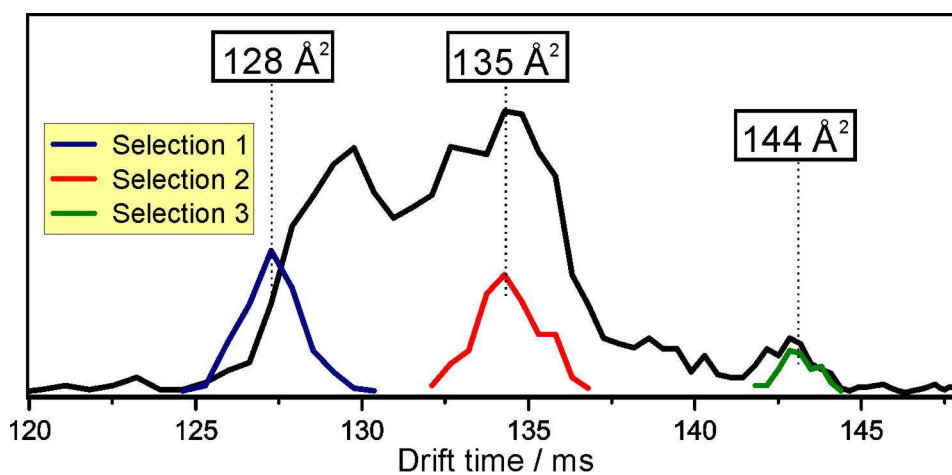


Figure S3. Drift time distributions for a_4 (same as Fig S2 B) and for mobility selections of a_4 at the end of the second drift tube. The experimentally derived collision cross sections are indicated. Note that the intensities of the mobility selections are multiplied by a factor of 20.

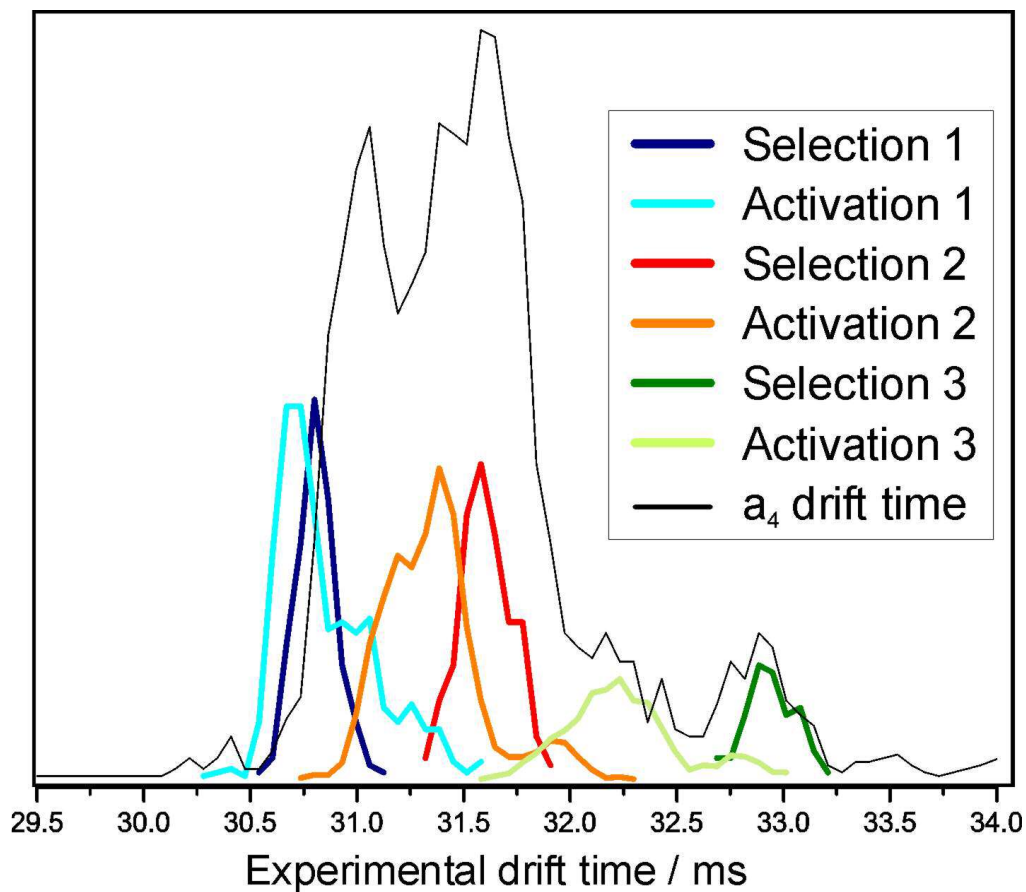


Figure S4. Drift time distributions of mobility-selected ions prior to and after collisional activation. The drift time distribution of the whole a_4 distribution is indicated with a fine line as a reference.