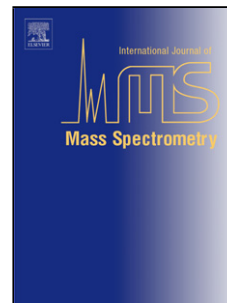


Accepted Manuscript

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PII: S1387-3806(17)30058-1
DOI: <http://dx.doi.org/doi:10.1016/j.ijms.2017.06.011>
Reference: MASPEC 15820

To appear in: *International Journal of Mass Spectrometry*

Received date: 7-2-2017
Revised date: 19-6-2017
Accepted date: 22-6-2017

Please cite this article as: Jongcheol Seo, Waldemar Hoffmann, Sebastian Malerz, Stephan Warnke, Michael T. Bowers, Kevin Pagel, Gert von Helden, Side-chain effects on the structures of protonated amino acid dimers: A gas-phase infrared spectroscopy study, *International Journal of Mass Spectrometry* <http://dx.doi.org/10.1016/j.ijms.2017.06.011>

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Side-chain effects on the structures of protonated amino acid dimers: A gas-phase infrared spectroscopy study

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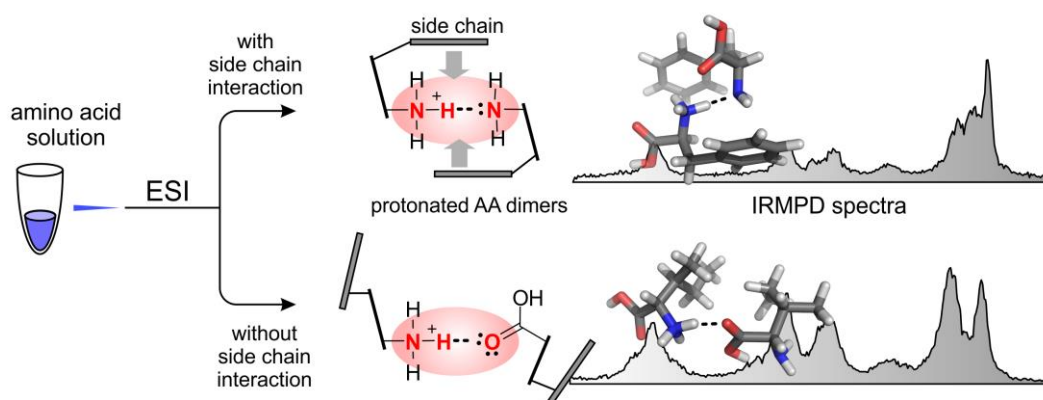
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Graphical abstract



Highlights

Mass/charge as well as ion mobility selected protonated amino acid dimers are investigated

IRMPD spectra and collision cross sections are recorded

Ab initio calculations are performed

The structures of the protonated amino acid dimers are assigned

The structures depend on the nature of the side chain

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