

GAS-PHASE STRUCTURES OF BIOMOLECULAR IONS PRODUCED BY NATIVE ESI

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Native electrospray ionization (ESI) can produce gas-phase biomolecular ions and their complexes, but it is unclear whether their structures are indeed near-native. This lecture presents a synergistic approach combining ion mobility-mass spectrometry, gas-phase FRET, and microsolvation-based differential mobility to constrain molecular modeling. Applications include various peptides, revealing that only multi-method analysis yields reliable gas-phase structures.

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