Title: Collision Induced Dissociation of N-(Pyridin-2-yl)-Substituted Benzo(Thio)amides and N-(Isoquinolin-1-yl)Furan(Thiophene)-2-Carboxamides and their Difluoroboranyl Derivatives

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Collision Induced Dissociation of N-(Pyridin-2-yl)-Substituted Benzo(Thio)amides and N-(Isoquinolin-1-yl)Furan(Thiophene)-2-Carboxamides and their Difluoroboranyl Derivatives

Małgorzata A. Kaczorowska* and Borys Ośmiałowski

Highlights

- The ESI CID MS/MS has been applied for the first time for structural elucidation of N-(Pyridin-2-yl)-Substituted Benzo(thio)amides and N-(Isoquinolin-1-yl)Furan(Thiophene)-2-Carboxamides and their Difluoroboranyl Derivatives.
- The effect of oxygen/sulfur replacement both in amide/thioamide and the furan/thiophene moiety on the CID fragmentation pattern has been investigated.
- The influence of the presence/absence of the $-BF_2$ group on collision induced dissociation behavior has been studied.

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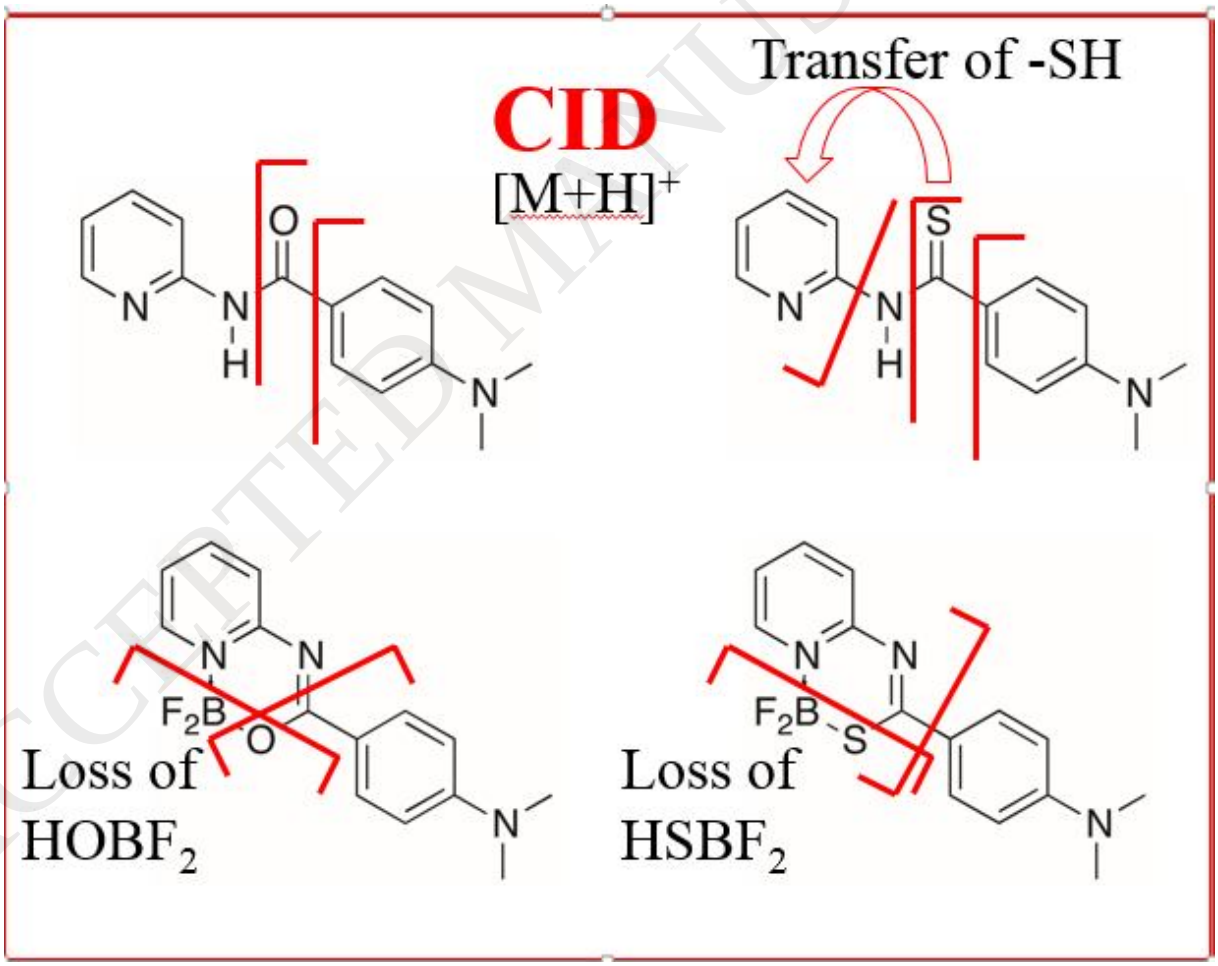
Graphical abstract



Abstract:

The effect of the properties of sulphur and oxygen atoms and of the presence/absence of the $-BF_2$ group on the collision induced dissociation (CID) behaviour of singly charged ions