

Supporting Information for

**"Photocleavable Peptide-Oligonucleotide Conjugates for Protein
Kinase Assays by MALDI-TOF MS"**

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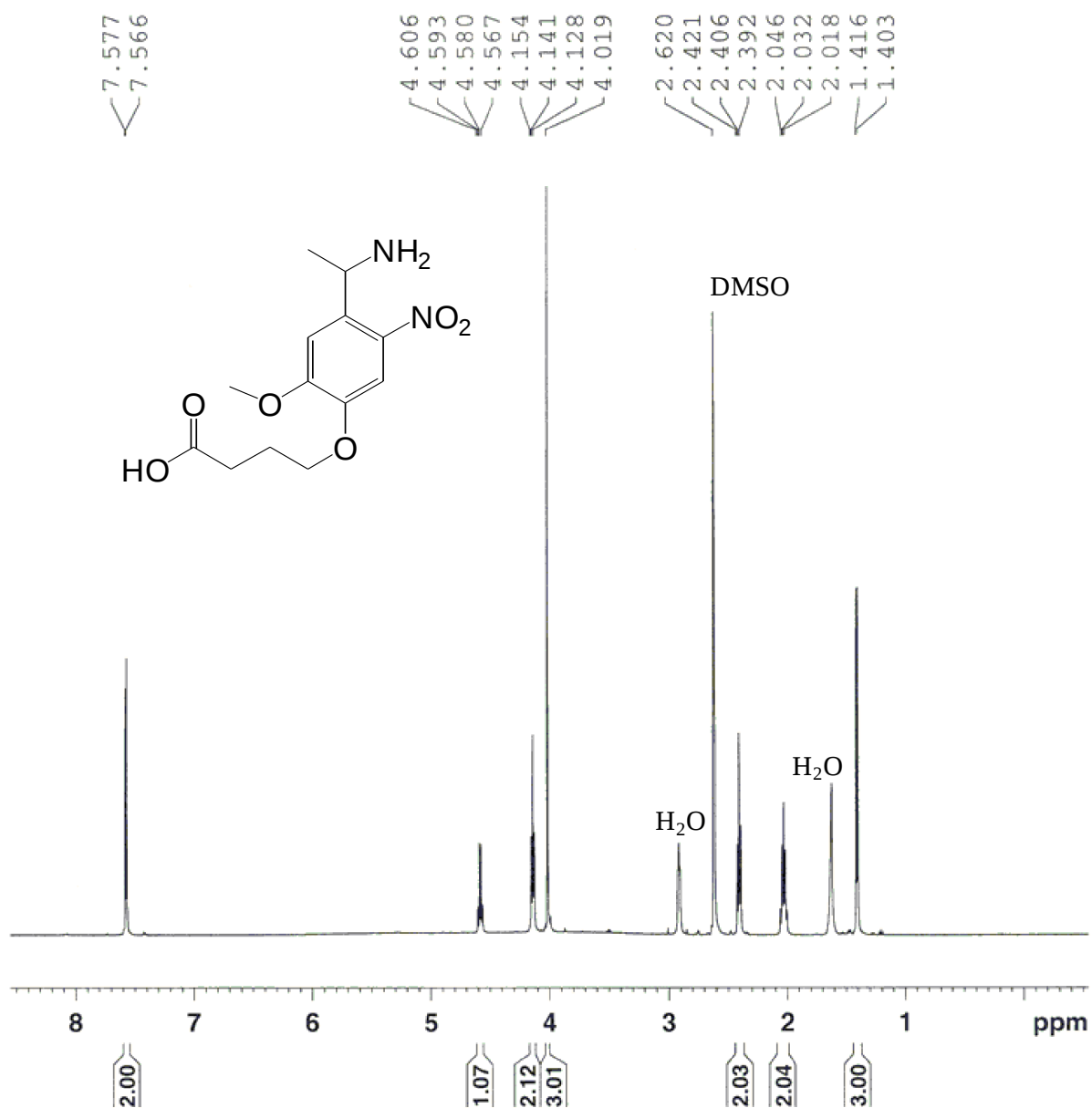


Figure S1. ¹H-NMR (DMSO-d₆) spectrum of 2.

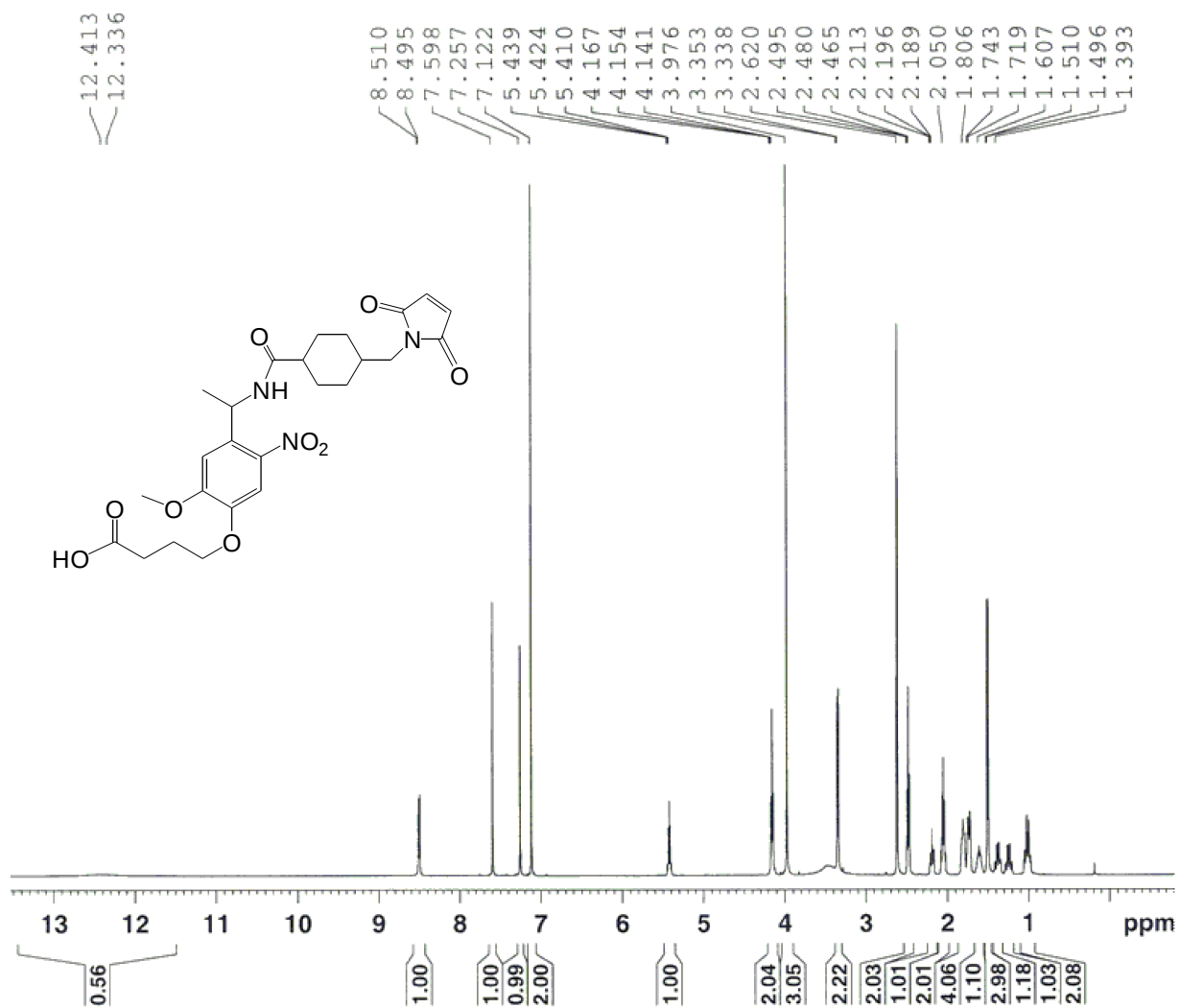


Figure S2. ^1H -NMR (DMSO-d_6) spectrum of the intermediate 3.

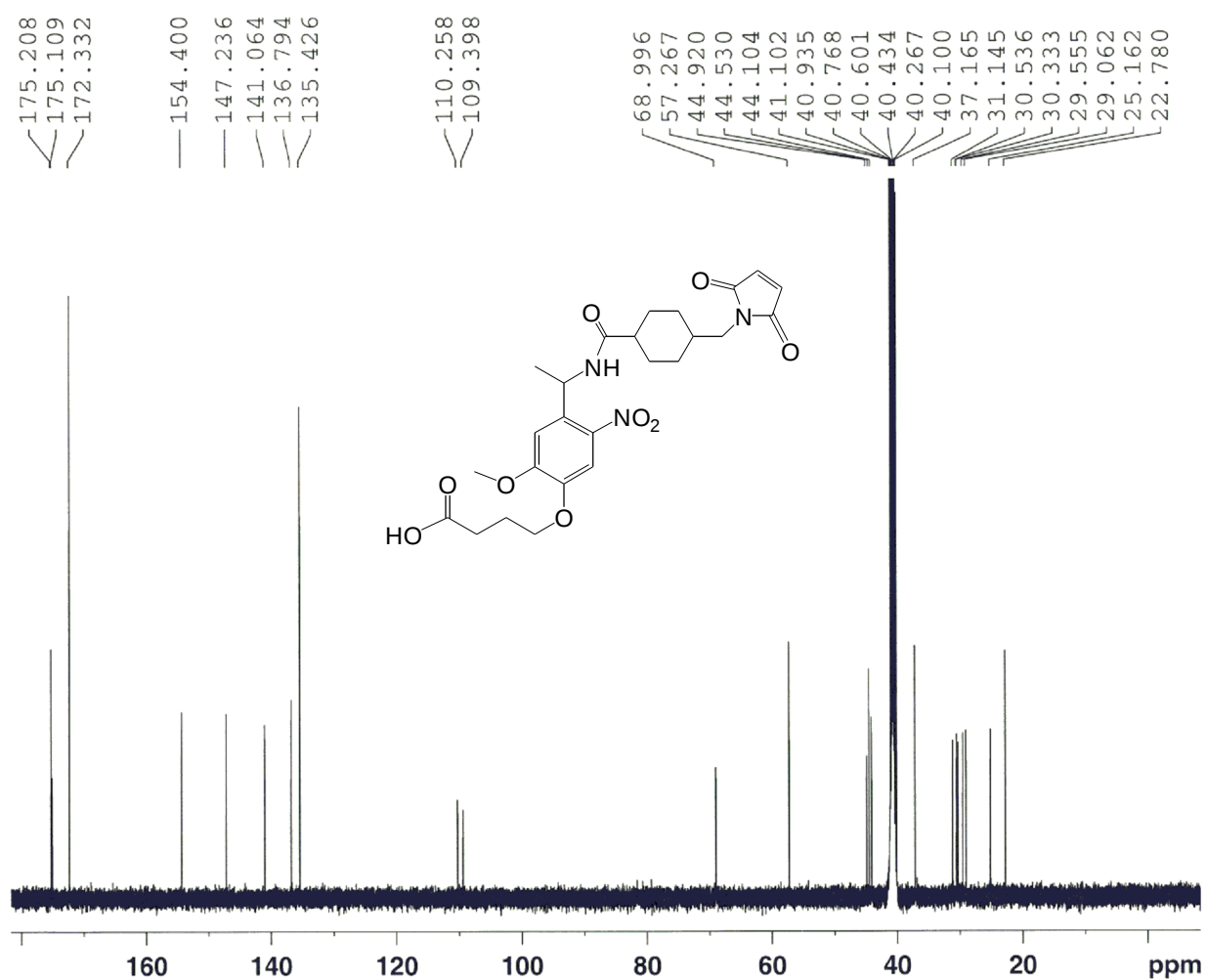


Figure S3. ¹³C-NMR spectrum (DMSO-d₆) of the intermediate 3.

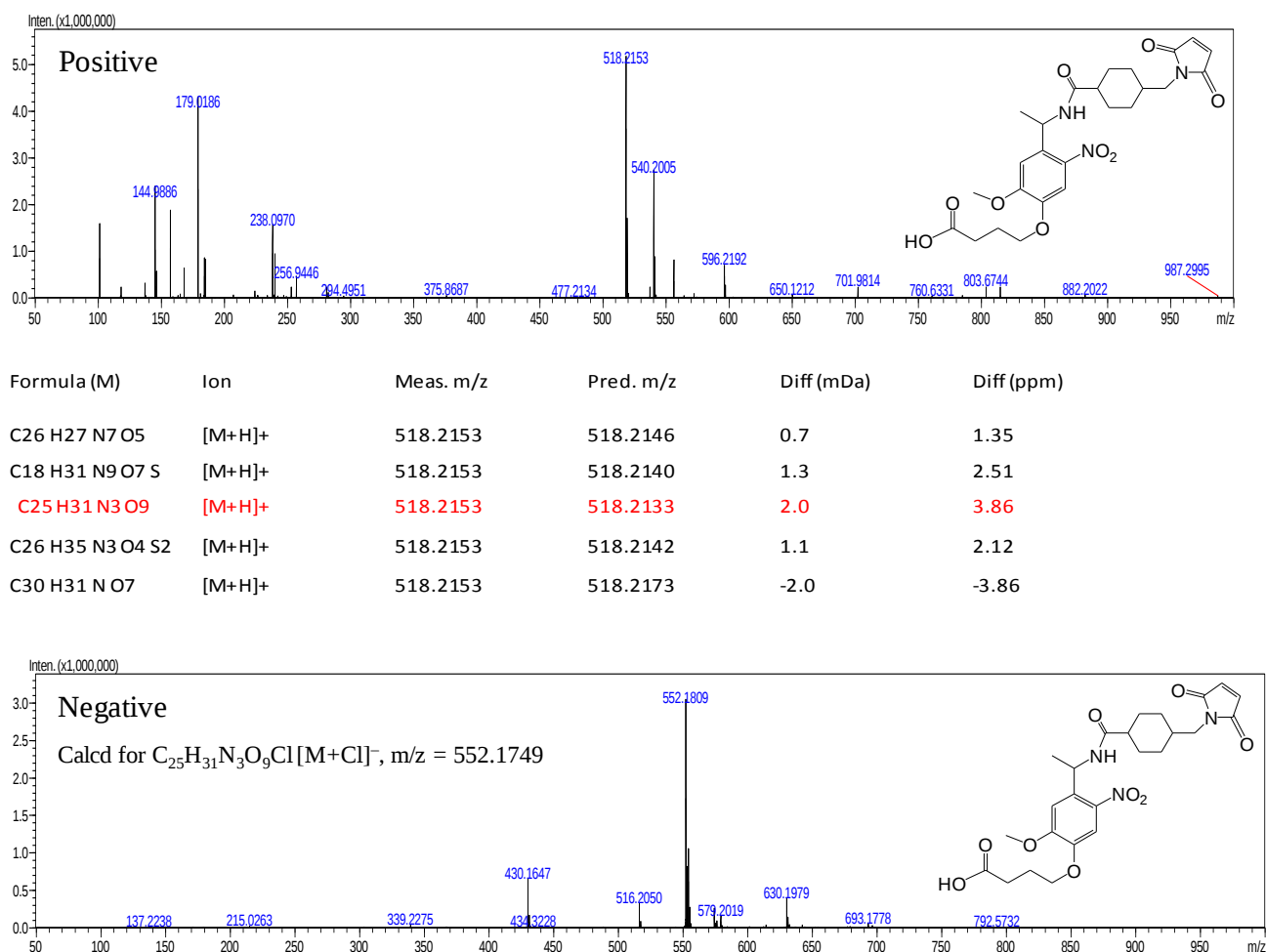


Figure S4. HRMS spectra (positive (up) and negative (down) mode) of the intermediate **3**.

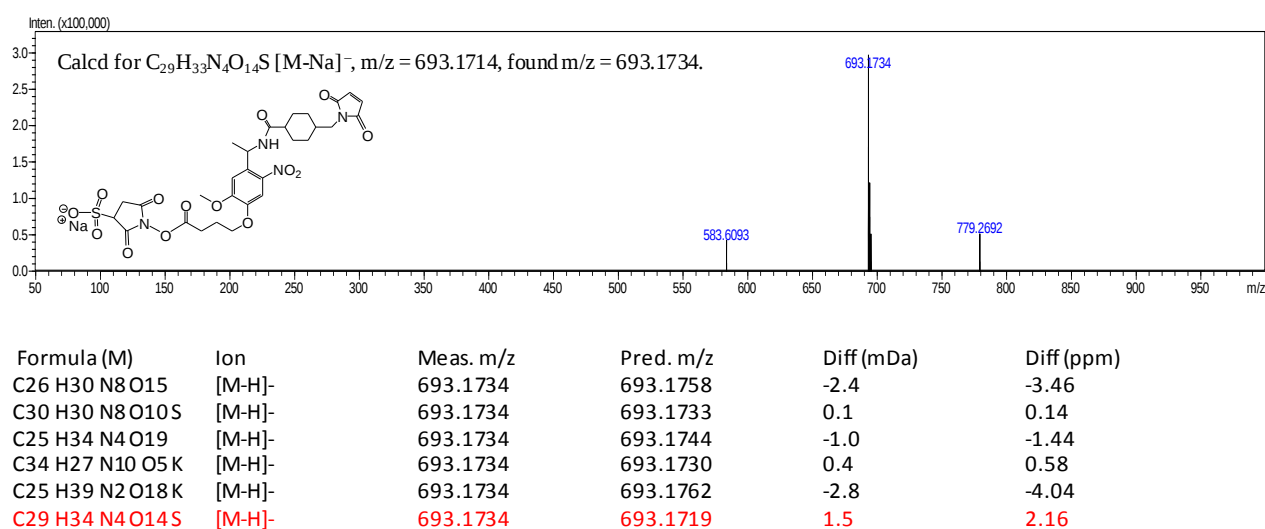


Figure S5. HRMS spectra (negative mode) of the target
photocleavable cross-linker **4** (Sulfo-PL-SMCC).

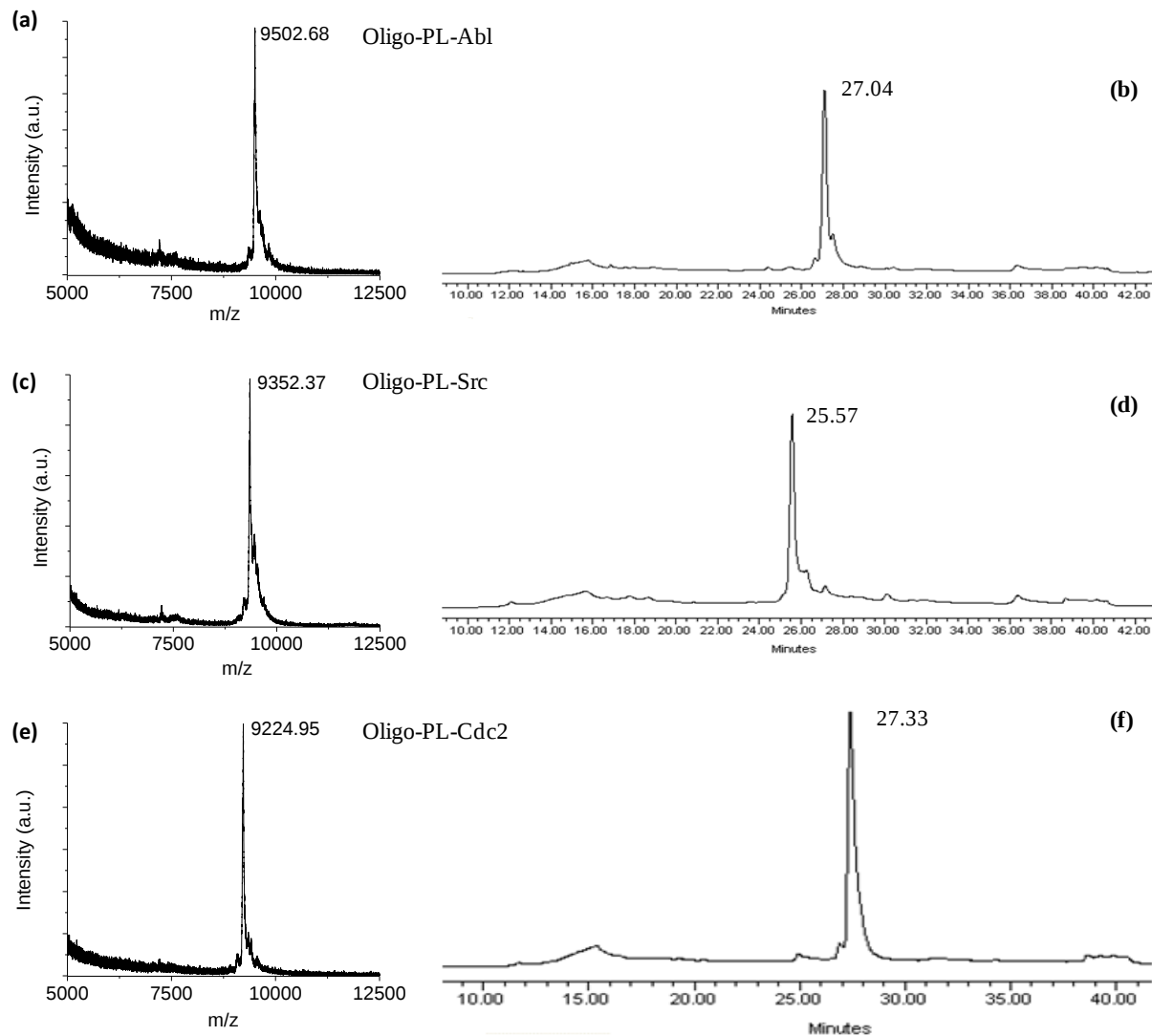


Figure S6. MALDI spectra and HPLC chromatographs of the purified photocleavable peptide-oligonucleotide conjugates, **Oligo-PL-Abl** (a, b); **Oligo-PL-Src** (c, d) and **Oligo-PL-Cdc2** (e, f).

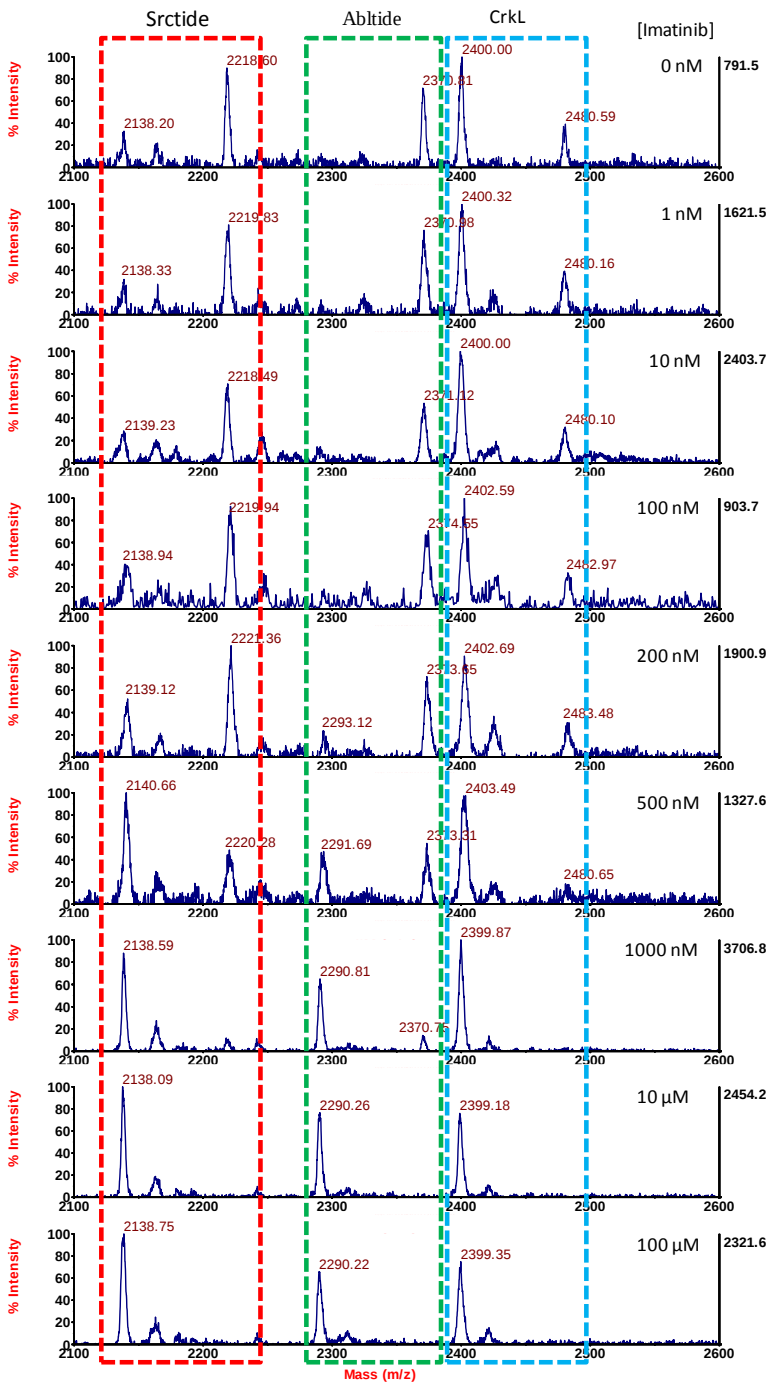


Figure S7. A set of MALDI-TOF MS spectra of the photocleavable peptide-oligonucleotide conjugates after 1 h phosphorylation by c-Abl at different imatinib concentrations. Three different series of peaks of phosphorylated and unphosphorylated peptide substrates corresponding to Srctide, Abltide and CrkL peptide respectively were observed (**left**). Predicted photocleavage site and theoretical molecular mass of their corresponding generated peptide substrate fragments (**down**).

