Supporting information

Mixed Alkyl Aryl Phosphonate Esters as Quenched Fluorescent Activity-Based Probes for Serine Proteases

Sevnur Serim, Philipp Baer, Steven H. L. Verhelst*

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**Figure S1.** Labeling of decreasing amounts of bovine trypsin with probe 15 for 30 min in PBS. Subsequently, the samples were resolved on a 12% polyacrylamide gel. Bands were detected by scanning on a Typhoon Trio+ fluorescent scanner.

**Figure S2.** Labeling of bovine trypsin with probe 15 for 30 min within the context of a cell lysate (1 mg/mL) of the HT-29 cell line (prepared by lysis in PBS with 0.5% NP-40 on ice for 30 min, then centrifuged to remove cell debris). Fluorescent bands were detected by scanning on a Typhoon Trio+. A protease concentration down to 0.05% of total protein could be visualized.
Copies of chromatograms and MS spectra

Compound 1

Compound 2
Compound 4

Compound 5
Compound 6

Compound 7
Compound 8

Compound 10
Compound 11

Compound 12
Compound 14
Compound 15