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3	Thiol-cleavable Biotin for Chemical and Enzymatic Biotinylation and its
4	Application to Mitochondrial TurboID Proteomics
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Figure S1. Example LC-MS chromatograms (A) and MS/MS spectra of peptide fragmentation (B)
for SS-biotin labeled, biotin-labeled, and unlabeled peptide (PNDTQWITKPVHK) from
ribosomal protein L15 (RPL15) in human cell lysate.





44 **Figure S2.** Histogram distribution of precursor masses (M+H) of non-labeled, biotin-labeled, and

45 SS-biotin-labeled peptides from human cell lysate samples.



Figure S3. Comparison of the protein digestion efficiency using Trypsin, LysC, and Trypsin/Lys-

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