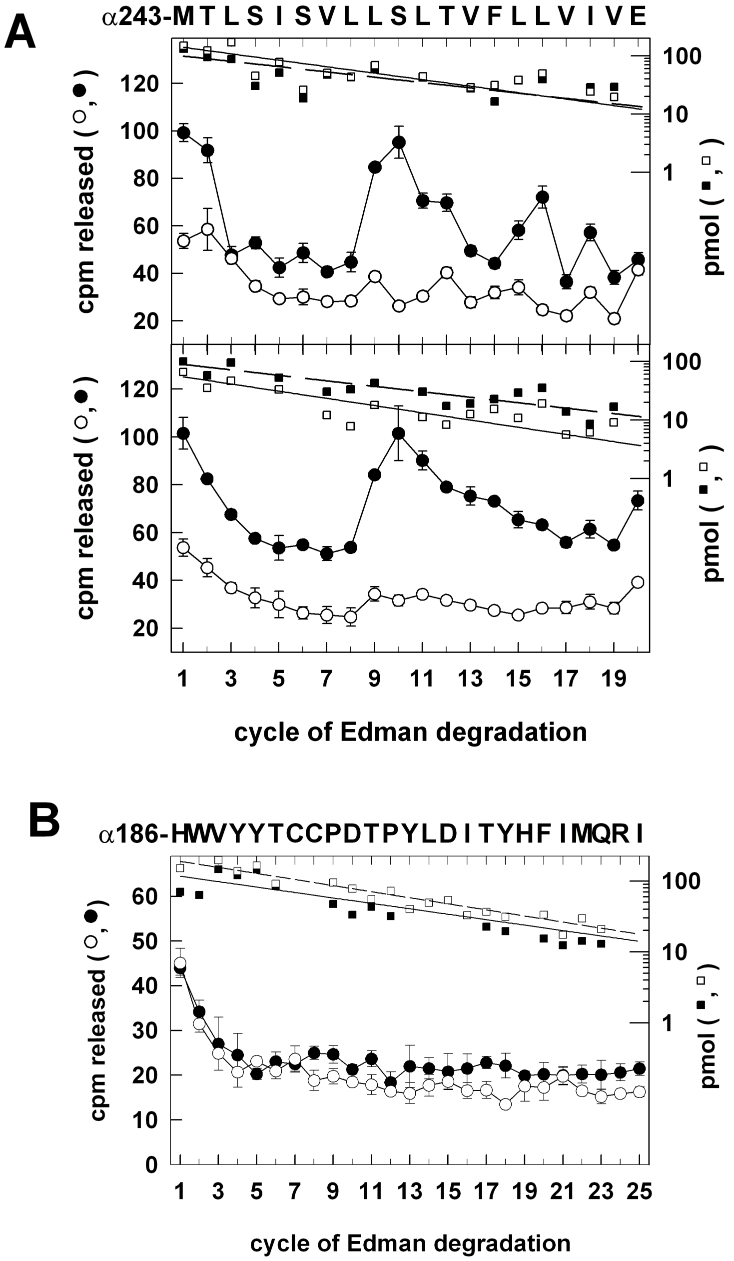
A
α243-M T L S I S V L L S L T V F L L V I V E
cpm released (○, ●)
pmol (■, □)
20
40
60
80
100
120
1
10
100
1
3
5
7
9
11
13
15
17
19
cycle of Edman degradation
B
α186-HWVYYTCCPDTPYLDITYHFIMQRI
cpm released (○, ●)
pmol (■, □)
0
10
20
30
40
50
60
1
10
100
1
3
5
7
9
11
13
15
17
19
21
23
25
cycle of Edman degradation

Figure 2-7. ^{3}H and mass release upon N-terminal sequence analysis of HPLC fractions of EndoLysC-digest of [^{3}H]ethidium diazide labeled αV8-20 .

A. Sequence analysis of fraction 34 from HPLC purification of Figure 2-6 (upper panel) and the same fraction from the purification of a second, independent labeling experiment. For each sample, 67% of each cycle of Edman degradation was analyzed for released ^{3}H (●,○), and 33% for released PTH-amino acids (■,□). For both labeling conditions, the only sequence detected began at αMet-243, the N-terminus of αM2. Labeling 1 (upper panel): +/- (●,■): I_0=109 pmol, R=90%, 11600 cpm loaded, 2600 cpm remaining after 25 cycles. +/+ (○,□): I_0=159 pmol, R=88%, 7900 cpm loaded, 1800 cpm remaining after 25 cycles. Labeling 2 (lower panel): +/- (●,■): I_0=98 pmol, R=90 %, 17000 cpm loaded, 5300 cpm remaining after 25 cycles. +/+ (○,□): I_0=63 pmol, R=87%, 7000 cpm loaded, 2500 cpm remaining after 25 cycles. The sequence of the identified peptide is shown above.

B. Sequence analysis of fraction 29 from HPLC purification of Figure 2-6. As above, for each sample, 67% of each cycle of Edman degradation was analyzed for released ^{3}H (●,○), and 33% for released PTH-amino acids (■,□). For both labeling conditions, the primary sequence detected began at αHis-186 and a secondary sequence beginning at αAsp-180 (+/- (●,■): αHis-186 I_0=128 pmol, R=92%; αAsp-180 I_0=18 pmol, R=94%, 5290 cpm loaded, 1250 cpm remaining after 25 cycles. +/+ (○,□): αHis-186 I_0=208 pmol, R=91%, αAsp-180 I_0=39 pmol, R=91%, 3330 cpm loaded, 770 cpm remaining after 25 cycles). Level of released PTH-amino acids of the primary sequence is plotted (■,□), and the sequence of the primary peptide is shown above.