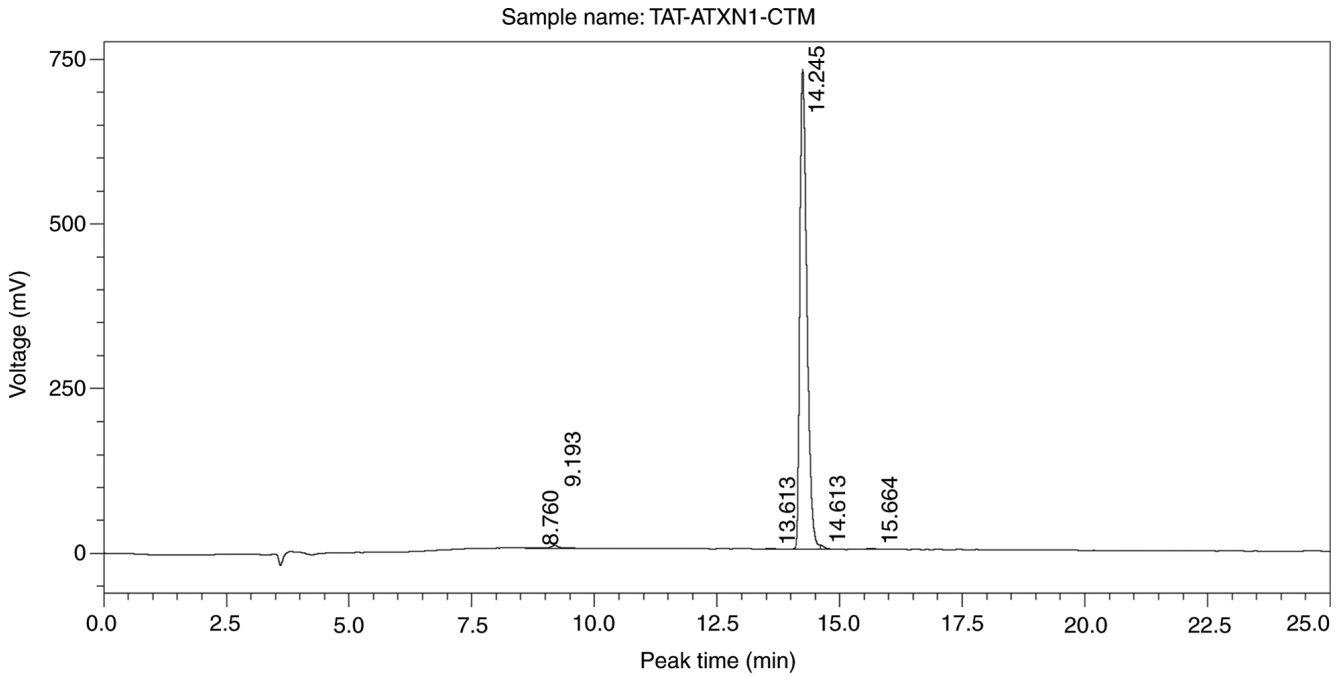
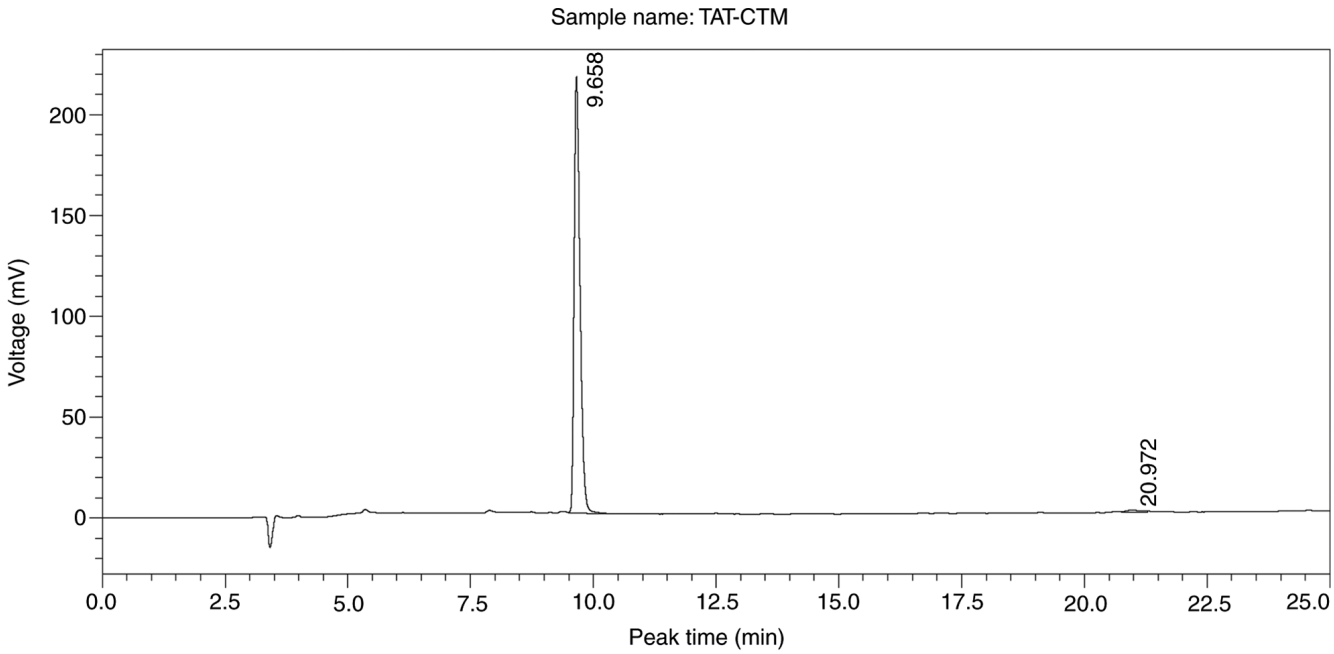
Figure S1. High-performance liquid chromatography profile of TAT-ATXN1-CTM. TAT, transactivator of transcription protein of HIV-1; ATXN1, ataxin 1; CTM, chaperone-mediated autophagy-targeting motif; Ret. Time, retention time.



Peak table

Peak#	Ret. time (min)	Area (uV* min)	Height (uV)	Area (%)
1	8.760	15105	906	0.203
2	9.193	54098	4087	0.726
3	13.613	9670	840	0.130
4	14.245	7314214	728129	98.142
5	14.613	34760	6290	0.466
6	15.664	24841	1982	0.333
Total		7452688	742236	100.000

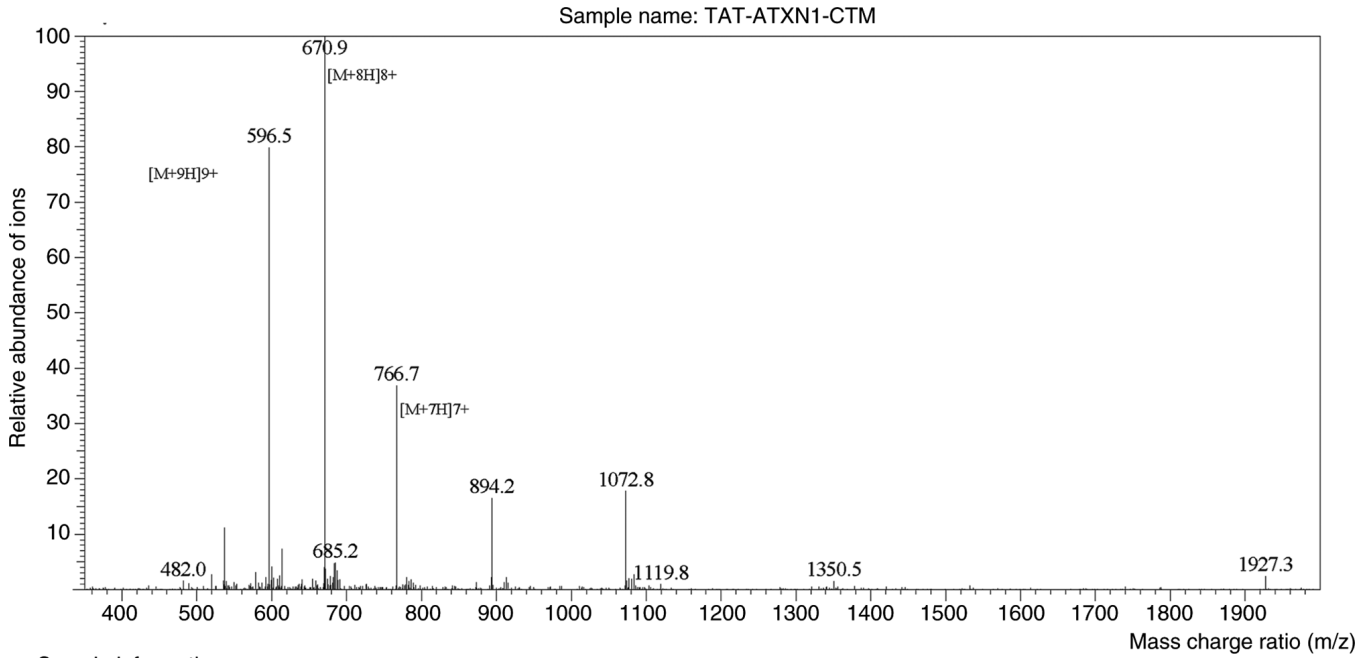
Figure S2. High-performance liquid chromatography profile of TAT-CTM. TAT, transactivator of transcription protein of HIV-1; CTM, chaperone-mediated autophagy-targeting motif; Ret. Time, retention time.



Peak table

Peak#	Ret. time (min)	Area (uV* min)	Height (uV)	Area (%)
1	9.658	1807516	216713	98.879
2	20.972	20500	928	1.121
Total		1828017	217641	100.000

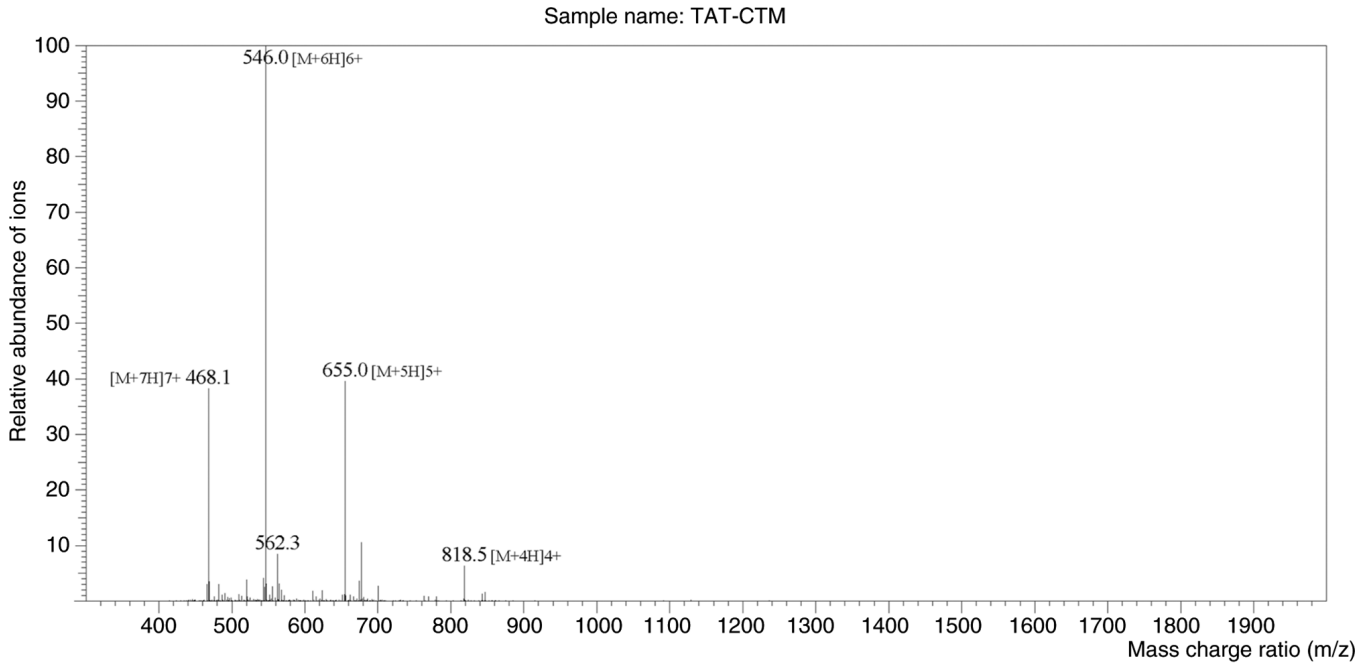
Figure S3. Mass spectrometry profile of TAT-ATXN1-CTM. TAT, transactivator of transcription protein of HIV-1; ATXN1, ataxin 1; CTM, chaperone-mediated autophagy-targeting motif; MW, molecular weight; ESI, electrospray ionization; CDL, curved desolventization lines; T.Flow, total flow.



Sample information

Interface: ESI	CDL Temp: 250 °C	Interface bias: +4.5 kV	Theoretical MW: 5359.10	T.Flow: 0.2 ml/min
Nebulizing gas flow: 1.5 l/min	Block temp: 200 °C	Drying gas flow: 5 l/min	Observed MW: 5359.20	

Figure S4. Mass spectrometry profile of TAT-CTM. TAT, transactivator of transcription protein of HIV-1; CTM, chaperone-mediated autophagy-targeting motif; MW, molecular weight; ESI, Electrospray Ionization; CDL, Curved desolventization Lines; T.Flow, Total Flow.



Sample Information

Interface: ESI	CDL temp: 250 °C	Interface bias: +4.5 kV	Theoretical MW: 3269.78	T.Flow: 0.2 ml/min
Nebulizing gas flow: 1.5 l/min	Block temp: 200 °C	Drying gas flow: 5 l/min	Observed MW: 3270.00	

Figure S5. HK2 overexpression plasmid increases HK2 mRNA level. Reverse transcription-quantitative PCR analysis of HK2 mRNA expression after transfection with HK2 plasmid or empty vector in 293T cells. Data are presented as the mean ± SEM (n=3). An unpaired two-tailed Student's t-test was used to assess significance. ##P<0.01 vs. empty vector. HK2, hexokinase 2.