

## Supporting Information

### Synthesis of Small Molecule-Peptide Conjugates as Potential Whitening Agents

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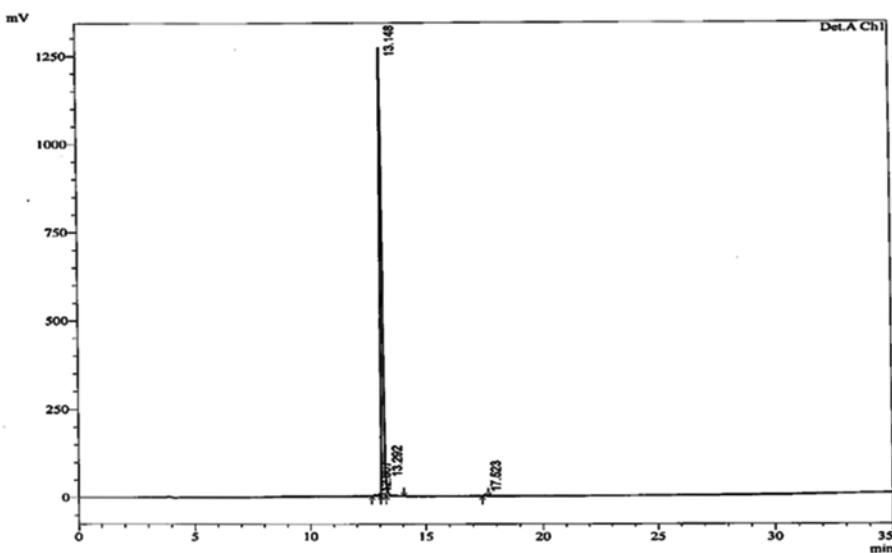
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**Table S1.** A library of small molecules-peptide conjugates. 28 compounds were synthesized by solid-phase method. The purity and molecular weight of each compound were analyzed using HPLC and MALDI-TOF-MS

No.	Compound	M.W.	Purity (%)
1	Caffeic acid-KVAR-NH <sub>2</sub>	632	96.647
2	Caffeic acid-VAR-NH <sub>2</sub>	505.5	97.672
3	Caffeic acid-AR-NH <sub>2</sub>	406.9	97.074
4	Caffeic acid-VARP-NH <sub>2</sub>	602.8	95.391
5	Caffeic acid-RP-NH <sub>2</sub>	432.2	97.975
6	Caffeic acid-VA-NH <sub>2</sub>	348.1	95.226
7	Caffeic acid-KV-NH <sub>2</sub>	406.5	95.288
8	Caffeic acid-KVAR-OH	634.7	97.552
9	Caffeic acid-VAR-OH	506.7	97.334
10	Caffeic acid-AR-OH	407.9	96.549
11	Caffeic acid-VARP-OH	603.5	96.900
12	Caffeic acid-RP-OH	433.4	96.682
13	Caffeic acid-VA-OH	350.1	97.324
14	Caffeic acid-KV-OH	407.4	97.437
15	Coumaric acid-KVAR-NH <sub>2</sub>	616.2	99.451
16	Coumaric acid-VAR-NH <sub>2</sub>	489.7	98.297
17	Coumaric acid-AR-NH <sub>2</sub>	390.4	98.072
18	Coumaric acid-VARP-NH <sub>2</sub>	586.5	99.116
19	Coumaric acid-RP-NH <sub>2</sub>	416.1	98.792
20	Coumaric acid-VA-NH <sub>2</sub>	333	98.231
21	Coumaric acid-KV-NH <sub>2</sub>	390.4	95.184
22	Coumaric acid-KVAR-OH	618.2	97.253
23	Coumaric acid-VAR-OH	490.7	99.448
24	Coumaric acid-AR-OH	391.3	98.929
25	Coumaric acid-VARP-OH	587.5	96.158
26	Coumaric acid-RP-OH	417.6	98.417
27	Coumaric acid-VA-OH	334	95.037
28	Coumaric acid-KV-OH	391.7	95.279

(a)

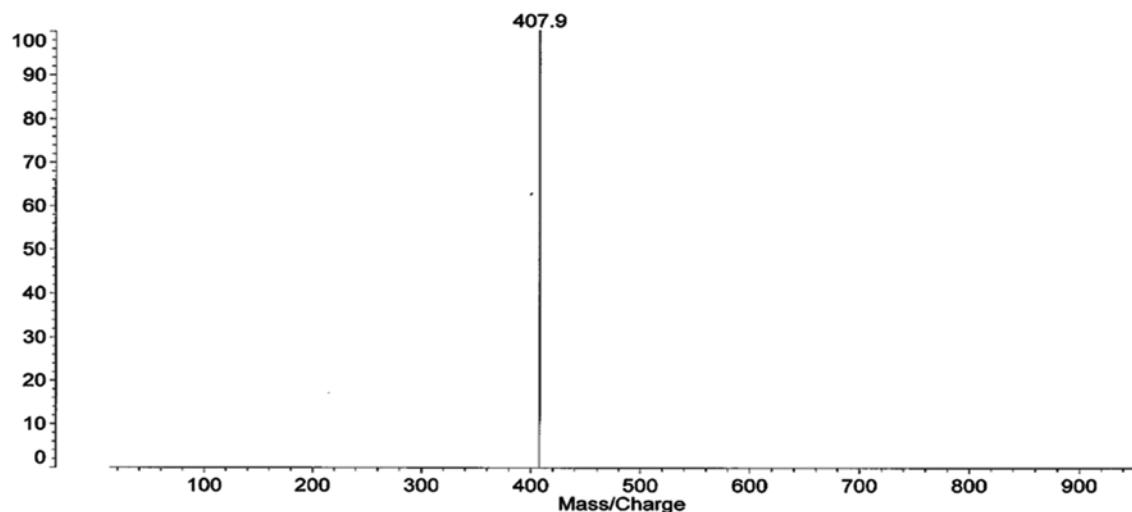
**Sample Name : Caffeic-AR-OH**

PeakTable

Detector A Ch1 230nm				
Peak#	Ret. Time	Area	Height	Area %
1	12.807	42826	4306	0.568
2	13.148	7276654	1267993	96.549
3	13.292	189431	47767	2.513
4	17.523	27832	4928	0.369
Total		7536743	1324994	100.000

(b)

Caffeic-AR-OH  
 Data: <Untitled>.A6 29 Aug 2011 15:50 Cal: 3000 Da 23 Mar 2011 17:43  
 Kratos PC Axima CFR V2.3.5: Mode linear, Power: 73, P.Ext. @ 5000 (bin 115)  
 %Int. 46 mV Profiles 1-5:

**Figure S1.** HPLC and MALDI-TOF-MS data of Caffeic acid-AR-OH. (a) HPLC chromatogram, (b) MALDI-TOF-MS spectrum.