**Supporting Information**

**Optimization of the** **benzamide fragment targeting the S2’ site leads to potent Dipeptidyl Peptidase-IV inhibitors**

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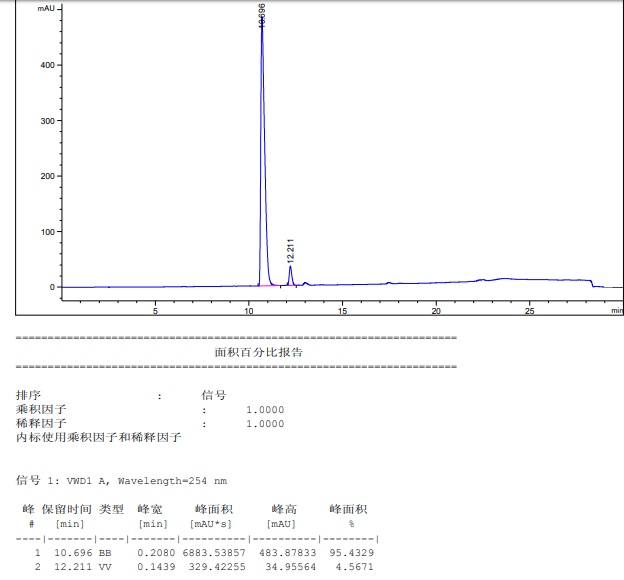
1. **1H NMR, 13C NMR, MS and HPLC figures for compounds 6**, **8**, **10a-i, 17a-h**

Compound **6**



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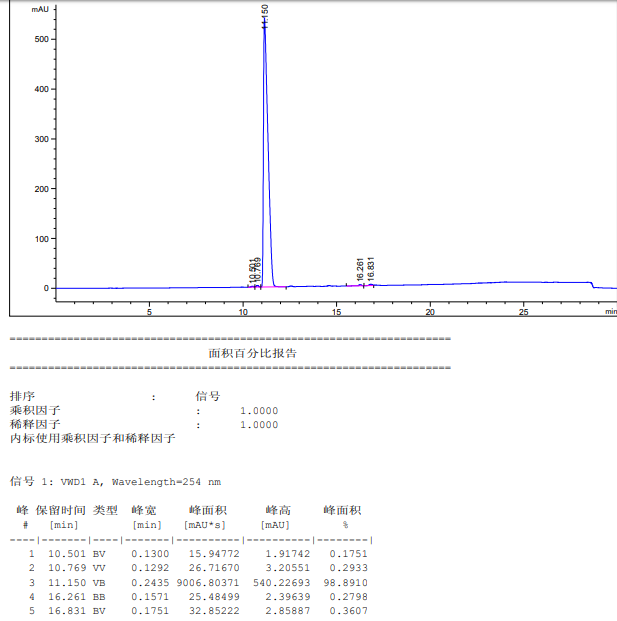


Compound **8**

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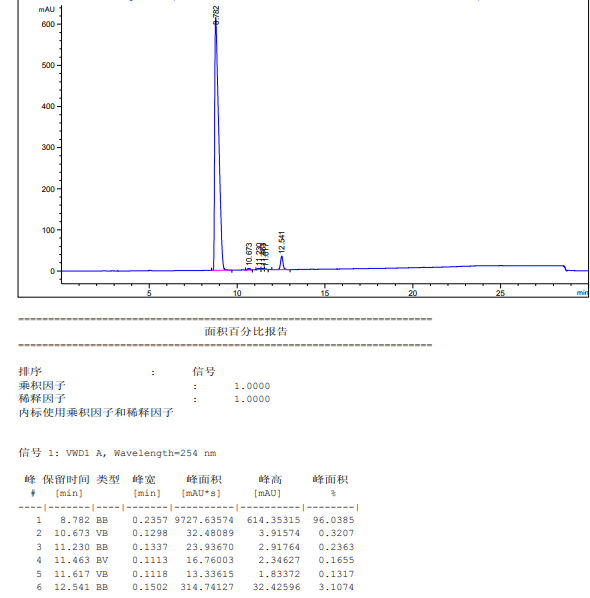


Compound **10a**







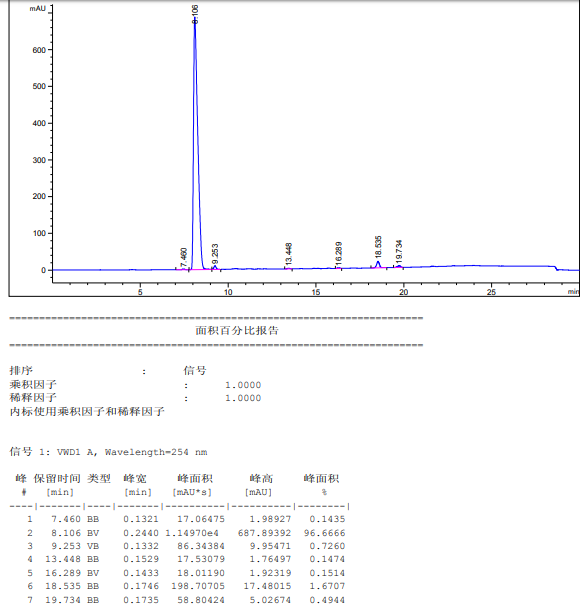


Compound **10b**







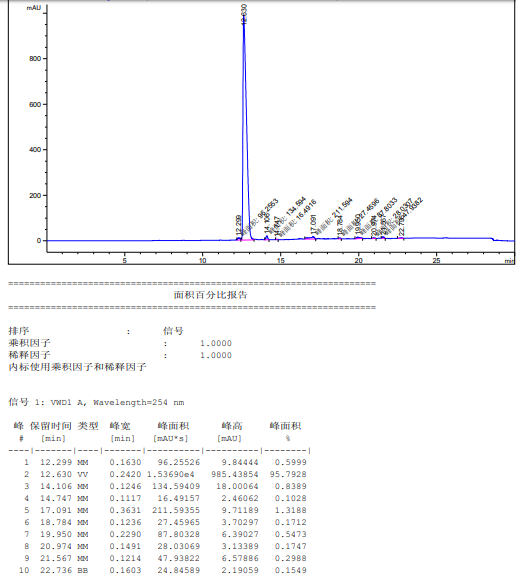


Compound **10c**





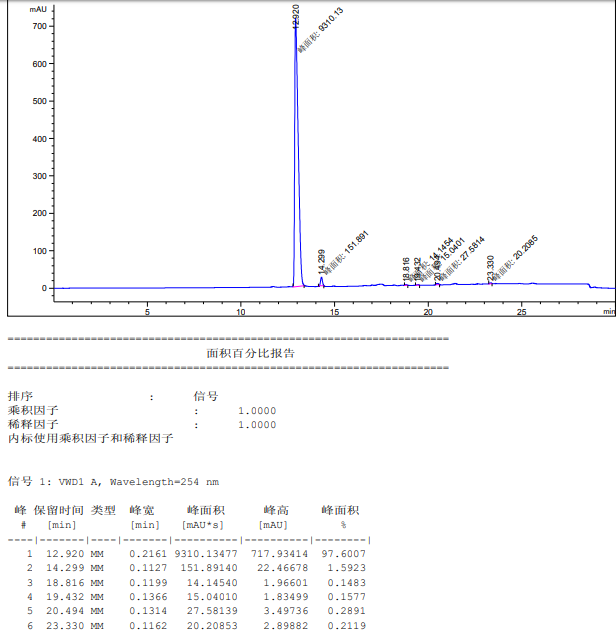




Compound **10d**





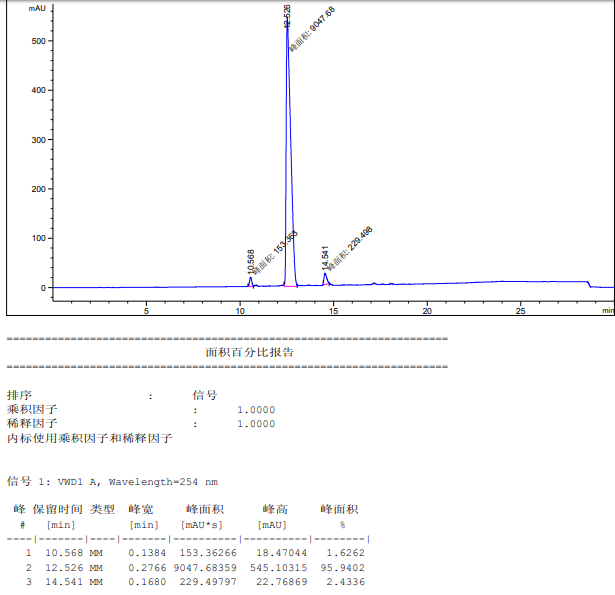


Compound **10e**





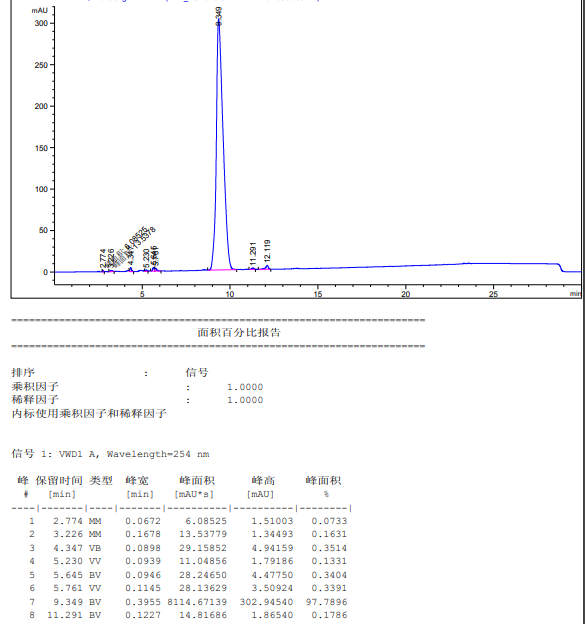




Compound **10f**





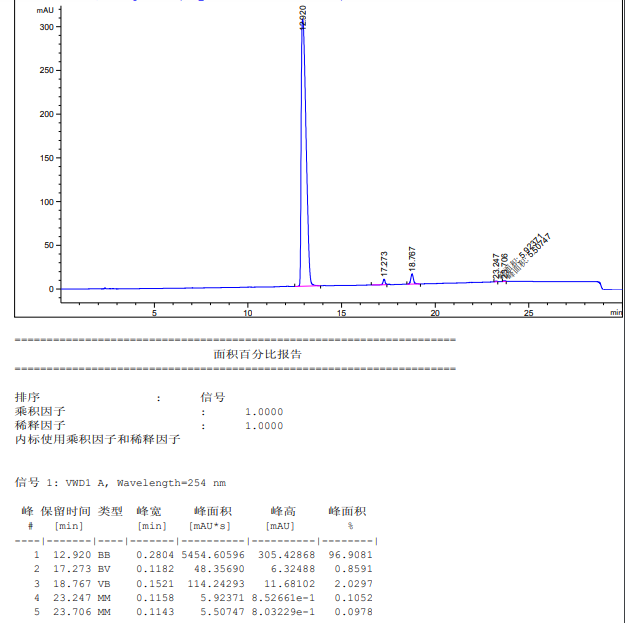


Compound **10g**





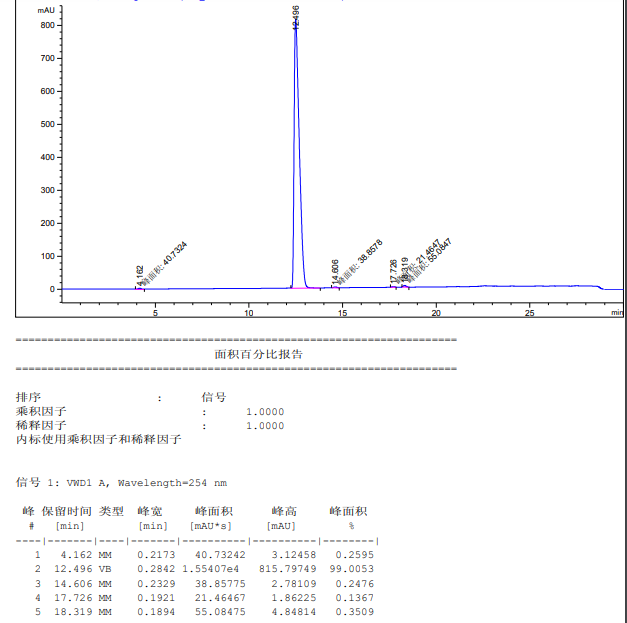




10h





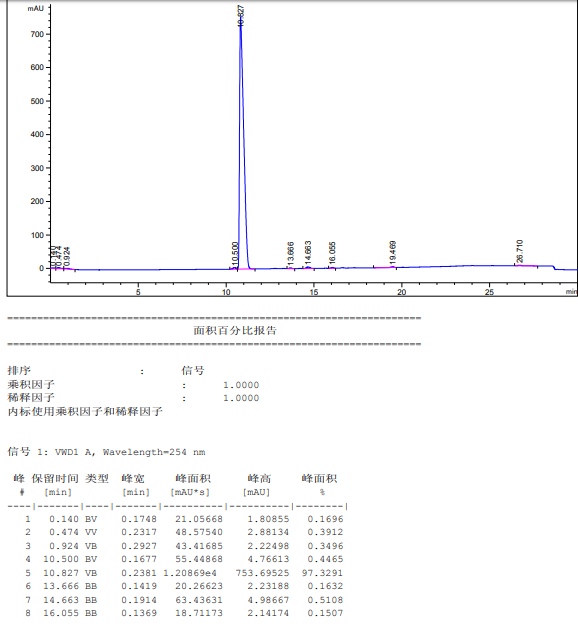


Compound **10i**







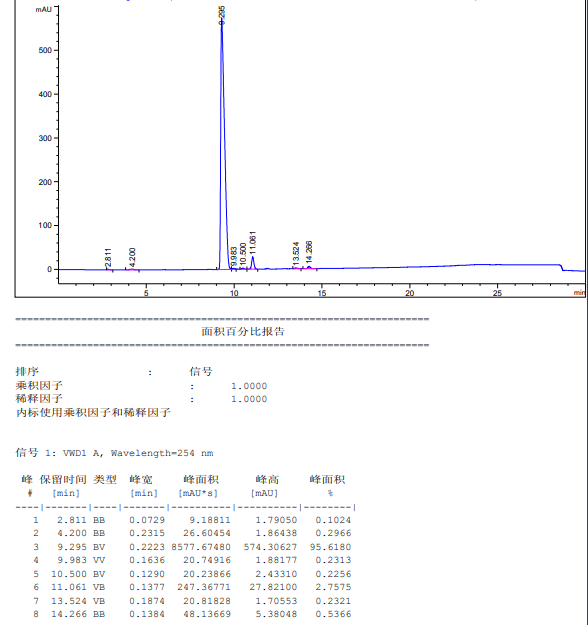


Compound **17a**







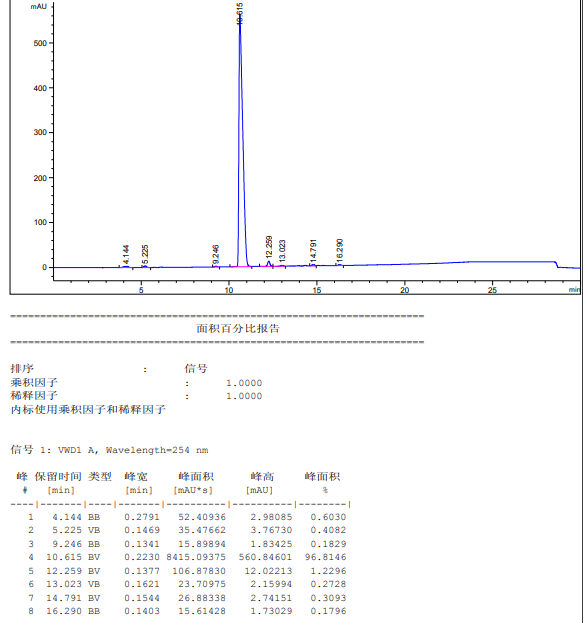


Compound **17b**







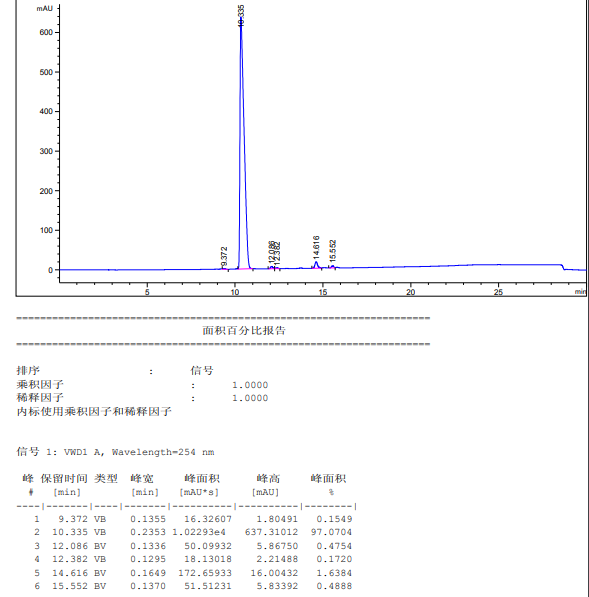


Compound **17c**







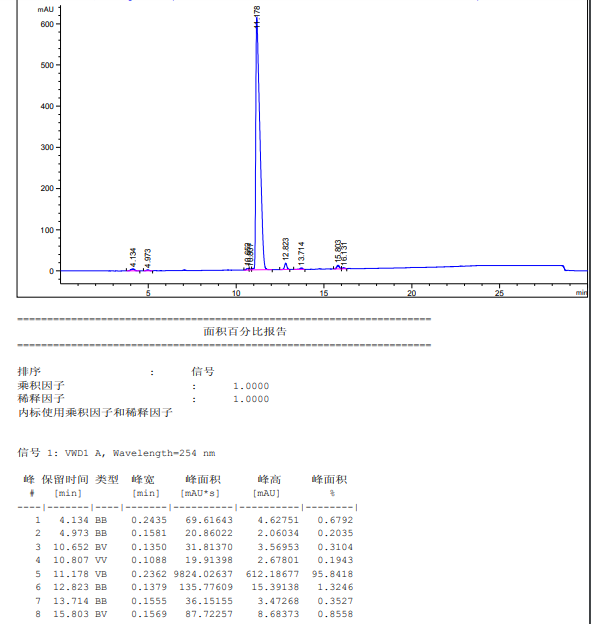


Compound **17d**







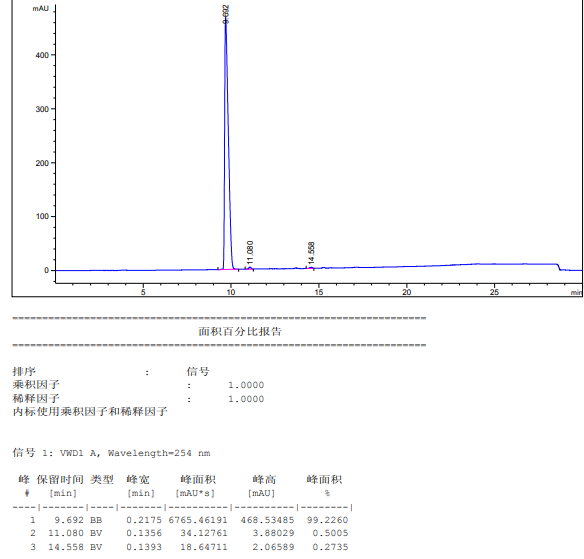


Compound **17e**







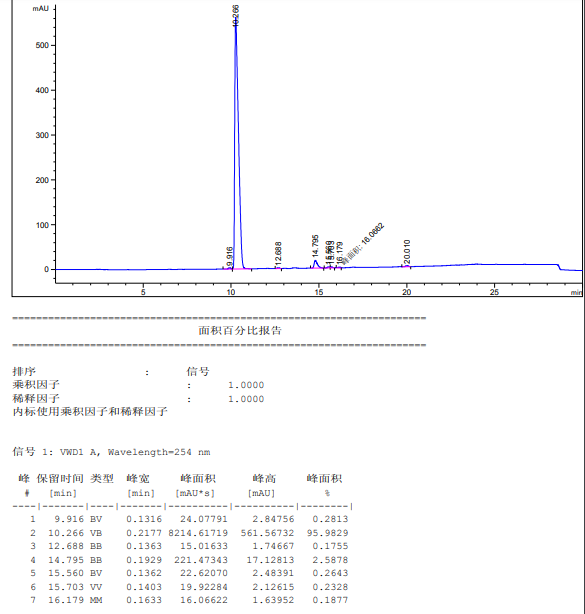


Compound **17f**







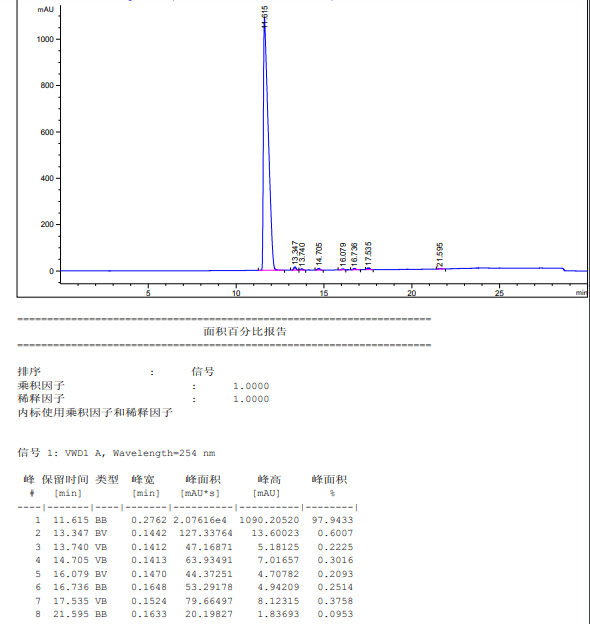


Compound **17g**







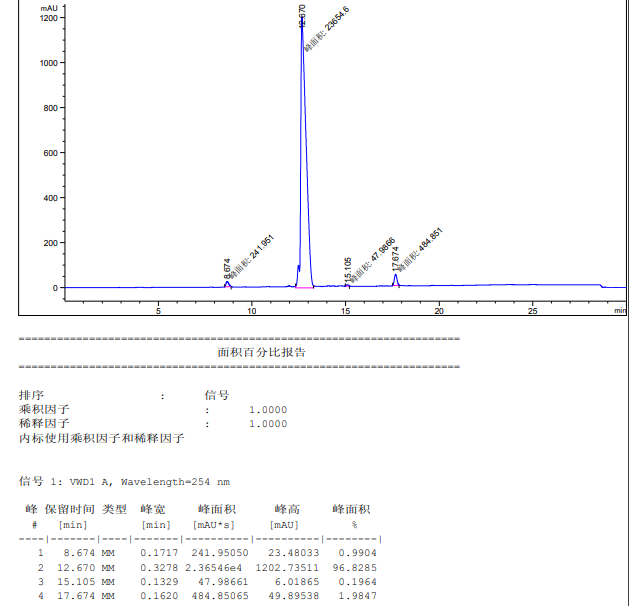


Compound **17h**









1. [↑](#footnote-ref-1)
2. Qing Li, Pharmaceutical College, Guangxi Medical University, Nanning 530021, Guangxi, PR China. Email: qingligxmu@163.com(Q. L.). Weizhe Jiang, Pharmaceutical College, Guangxi Medical University, Nanning 530021, Guangxi, PR China. Email: Weizhejiang63@163.com(W. Z.). [↑](#footnote-ref-2)