Supporting Information

Studies on the enantiomers of ZJM-289: synthesis and biological evalution of antiplatelet, antithrombotic and neuroprotective activities

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1. HPLC conditions and chromatograms of ZJM-289, (*S*)- and (*R*)-ZJM-289

HPLC conditions:

Column: Shimadzu OD 250×4.6 mm×5 μm

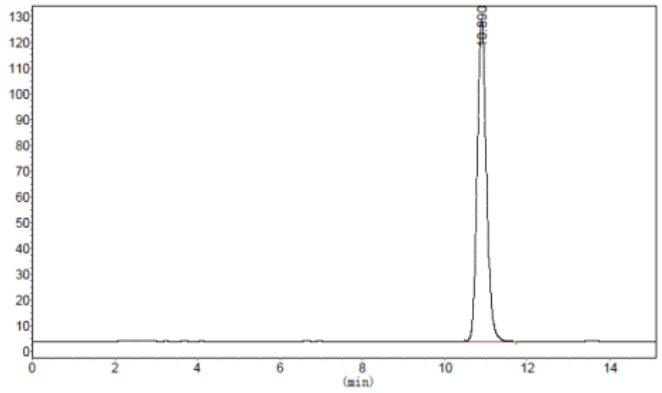
Mobile phase: Acetonitrile: Water = 90:10;

Wavelength: 254 nm;

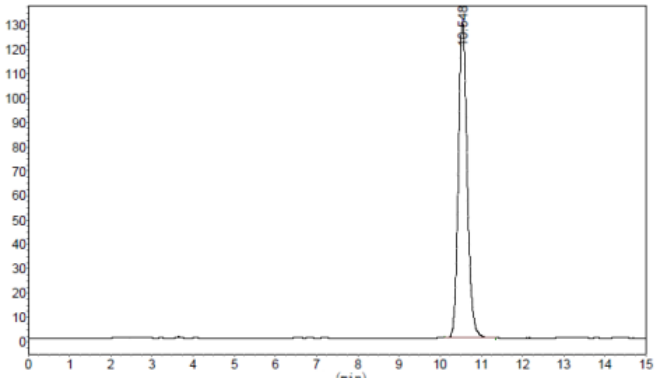
Rate: 1 mL/min;

Temperature: 40 °C;

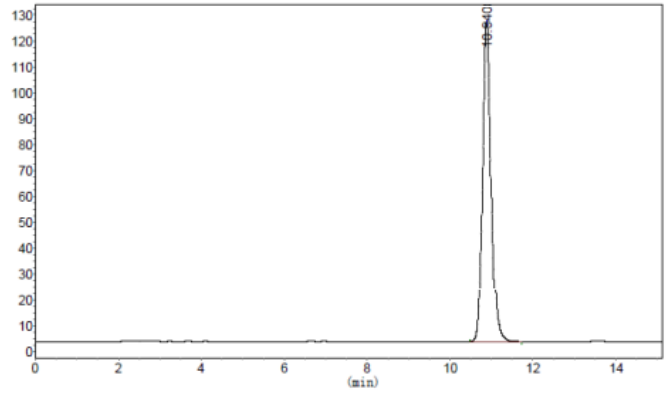
ZJM-289, 100%



(S)-ZJM-289, 99.7%



(R)-ZJM-289, 99.6%



2. Chiral HPLC conditions and chromatograms of (*S*)- and (*R*)-NBP, (*S*)- and (*R*)-ZJM-289

2.1 (*S*)- and (*R*)-NBP

Chiral HPLC conditions:

Column: Chiralpak IA（250mm×4.6mm×5μm);

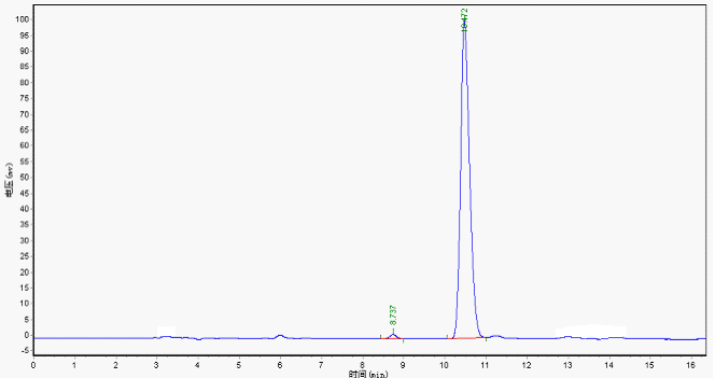
Mobile phase: Hexane : Isopropanol : Diethylamine = 90:10:0.1;

Wavelength: 220 nm;

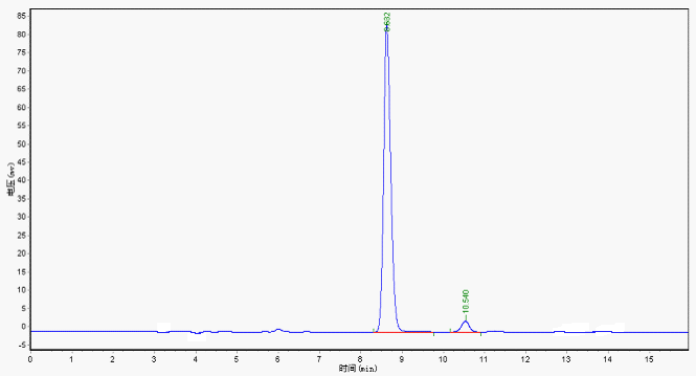
Rate: 1 mL/min;

Temperature: 25 °C;

(*S*)-NBP,98.1%



(*R*)-NBP,97.4%



2.2 (*S*)- and (*R*)-ZJM-289

Chiral HPLC conditions:

Column: Chiralpak IA（250mm×4.6mm×5μm);

Mobile phase: Hexane : Ethanol : Diethylamine

= 80:20:0.1;

Wavelength: 280 nm;

Rate: 1 mL/min;

Temperature: 25 °C;

(*S*)-ZJM-289, 99.5%

(*R*)-ZJM-289, 98.6%