

Data Sheet

Peptide and Protein Radiolabelling Examples

PEPTIDE AND PROTEIN RADIOLABELLING

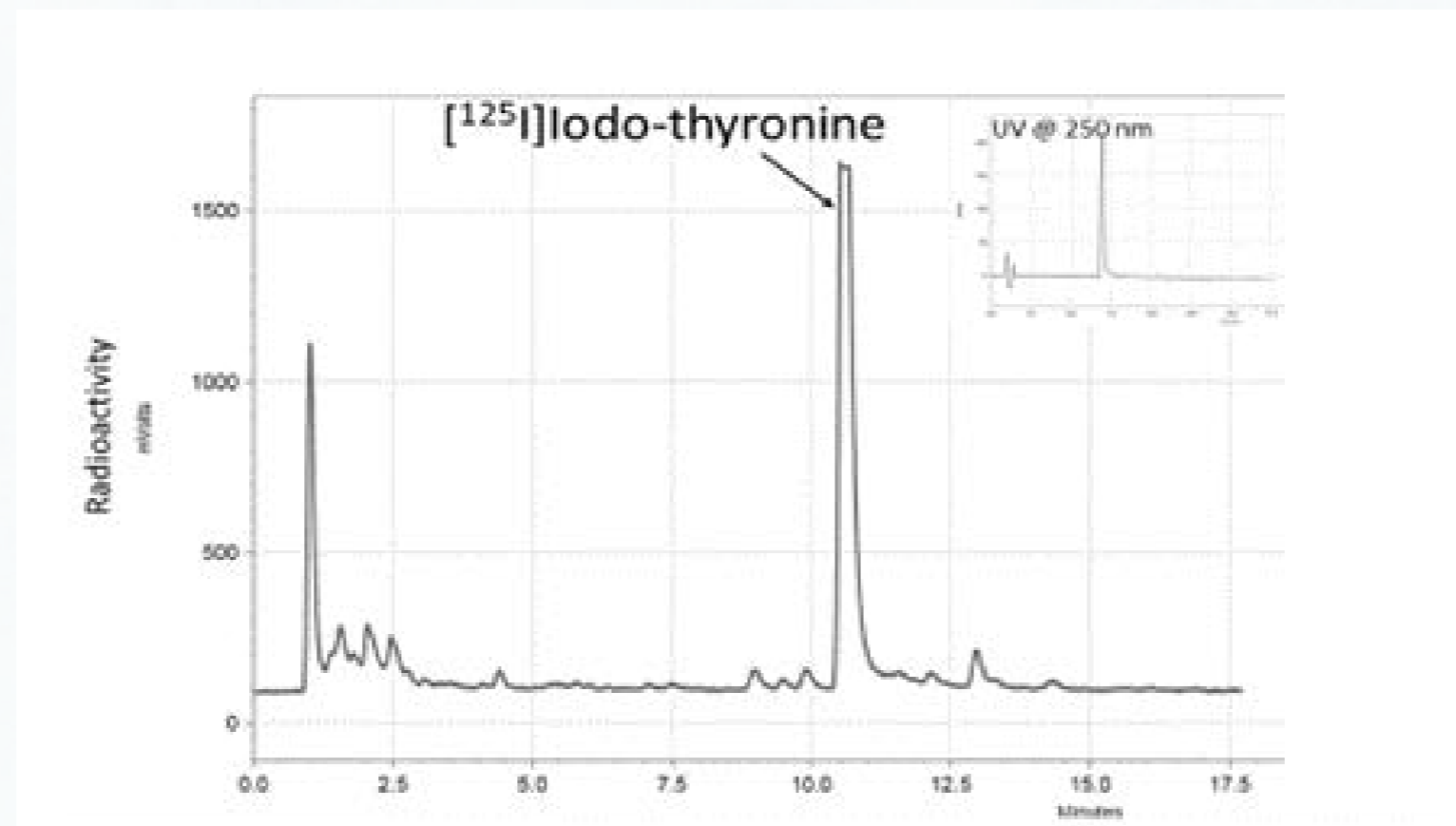


Figure 1: Radiosynthesis and HPLC purification of [¹²⁵I]iodo-thyronine prepared using the iodogen method.

HPLC conditions

Column: C18 4.7 x 150 mm

Mobile phase: Gradient 25 – 50 % ACN, 0.1 % TFA

Flow rate: 1 ml/min

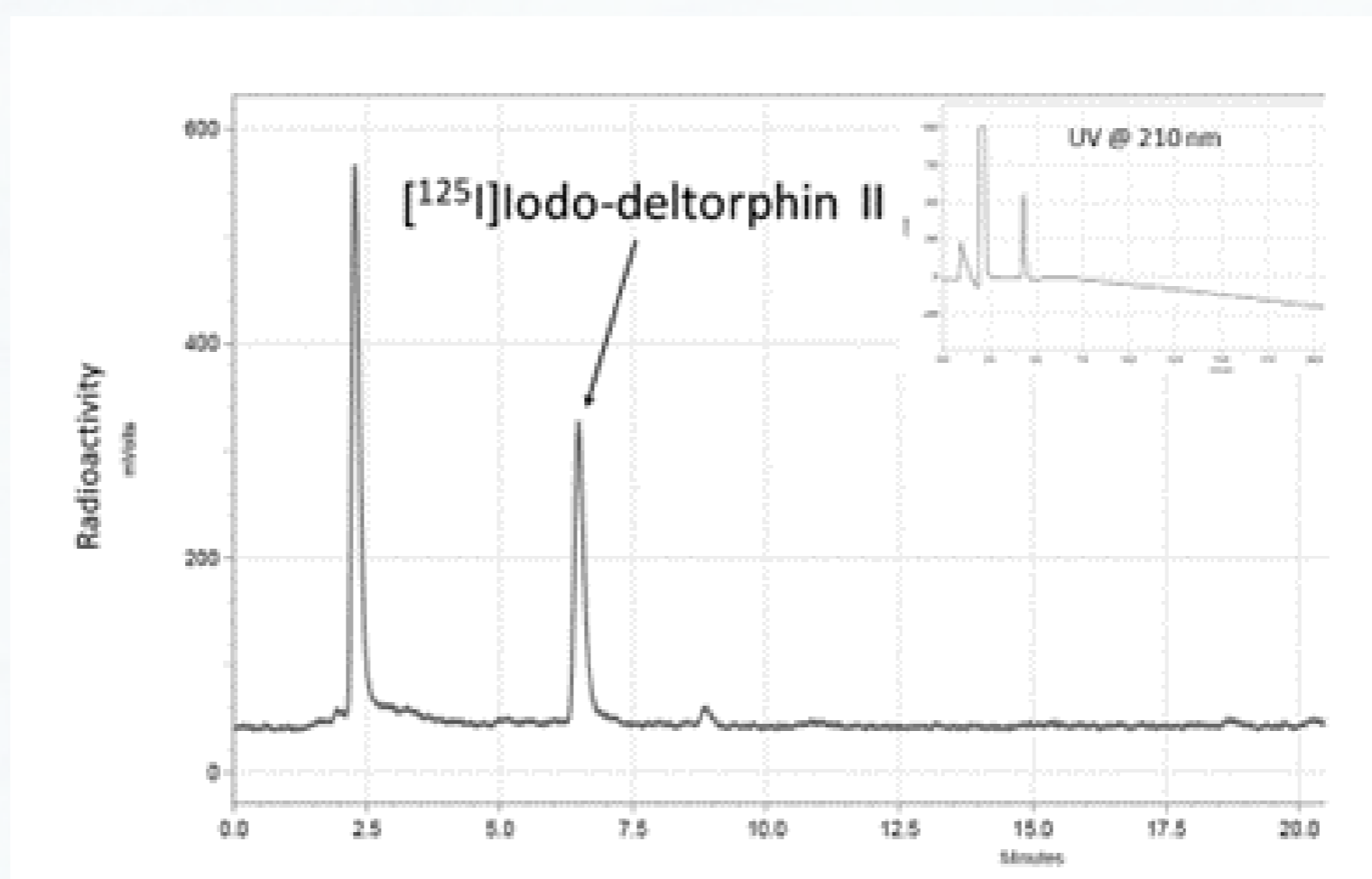


Figure 2: Radiosynthesis and HPLC purification of [¹²⁵I]iodo-[D-Ala²]deltorphin II prepared via the lactoperoxidase method.

HPLC conditions

Column: C18 4.7 x 150 mm

Mobile phase: Gradient 25 – 60 % ACN, 0.1 % TFA

Flow rate: 1 ml/min

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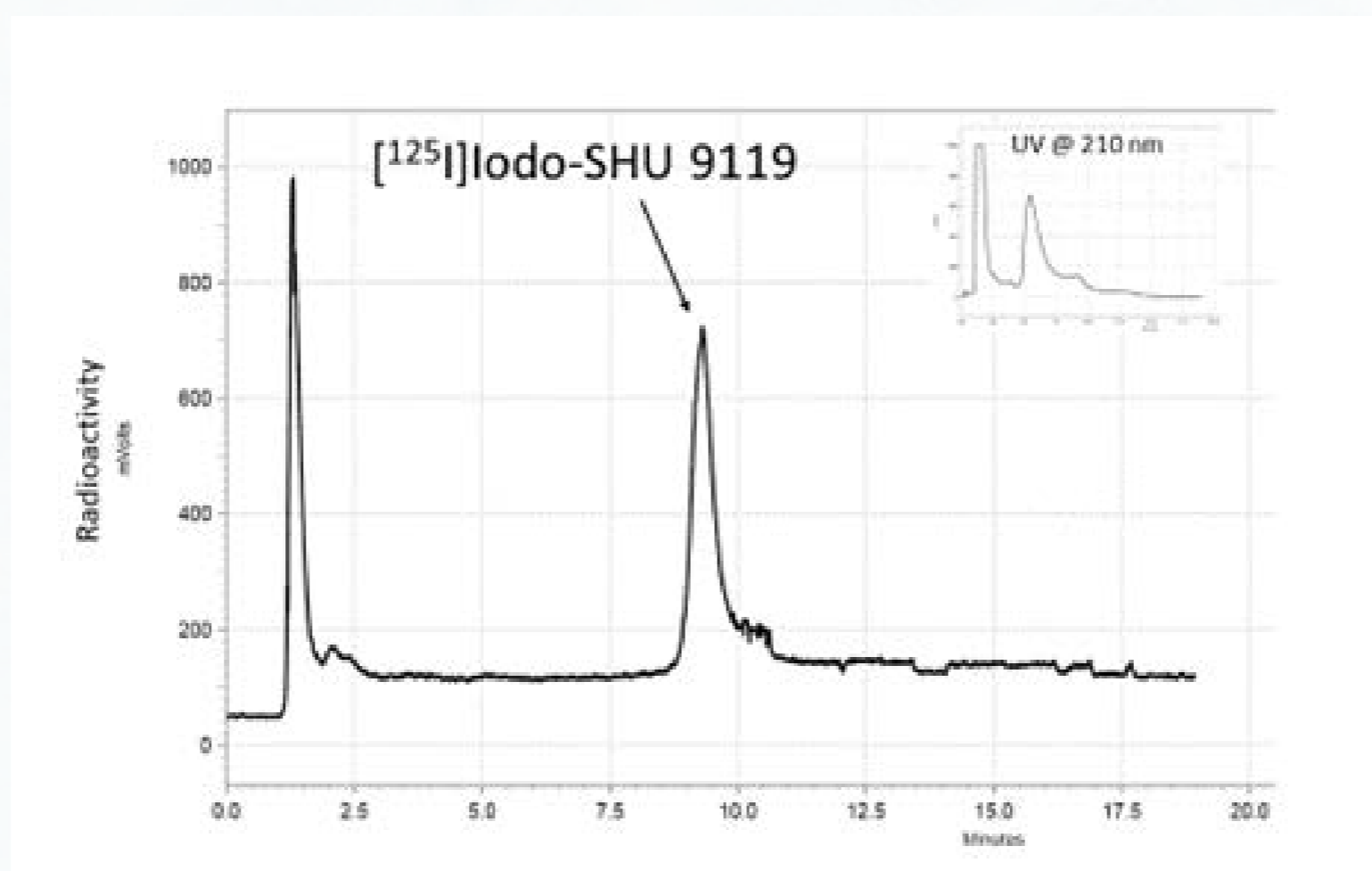


Figure 3: Radiosynthesis and HPLC purification of [¹²⁵I]iodo-SHU 9119 prepared via the lactoperoxidase method.

HPLC conditions

Column: C18 4.7 x 150 mm

Mobile phase: Gradient 25 – 50 % ACn, 0.1 % TFA

Flow rate: 1 ml/min

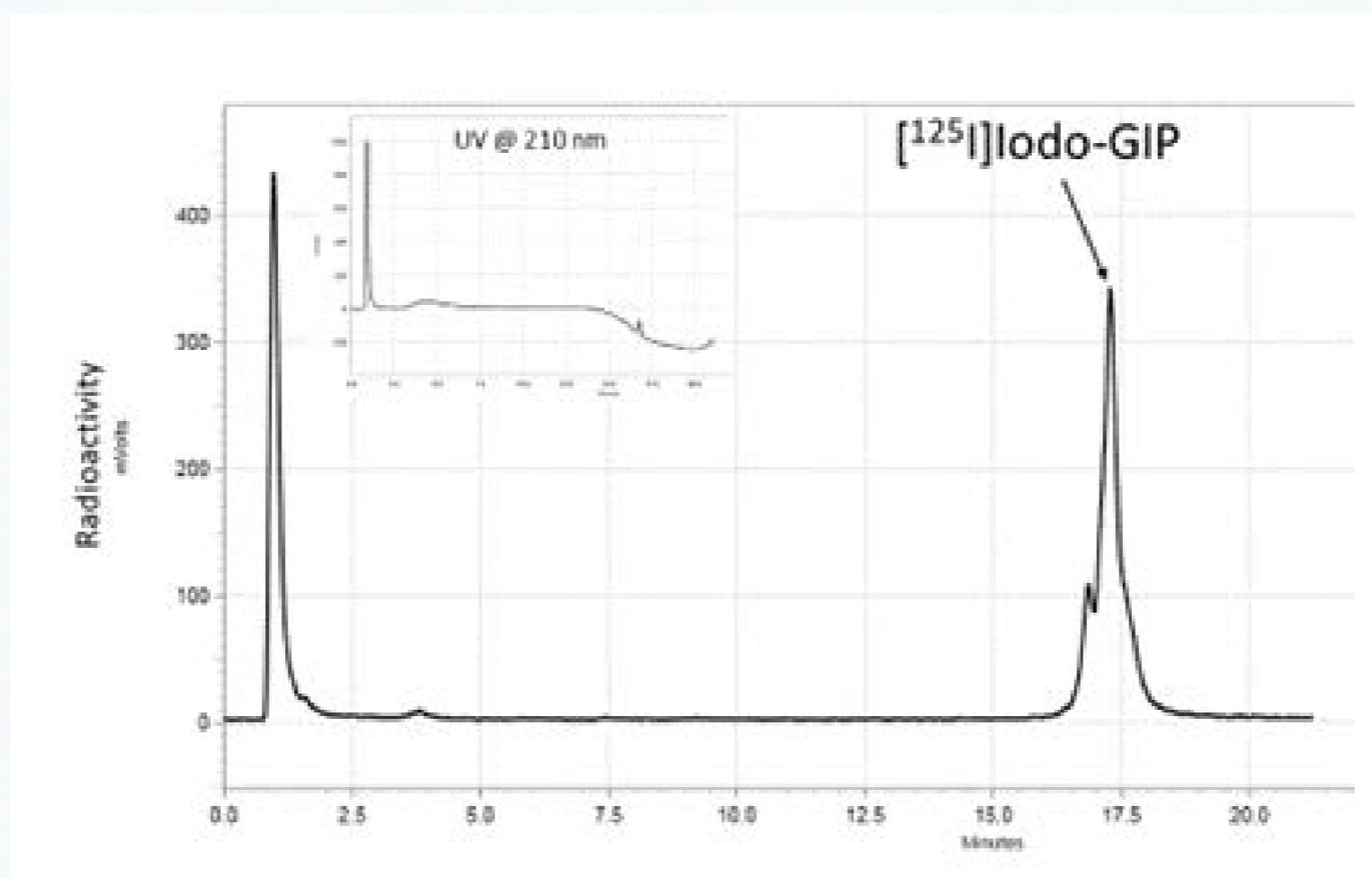


Figure 4: Radiosynthesis and HPLC purification of [¹²⁵I]iodo-GIP prepared using a soluble oxidizing agent (N-chlorosuccinimide).

HPLC conditions

Column: C18 4.7 x 50 mm

Mobile phase: Gradient 25 – 50 % ACn, 0.1 % TFA

Flow rate: 1 ml/min

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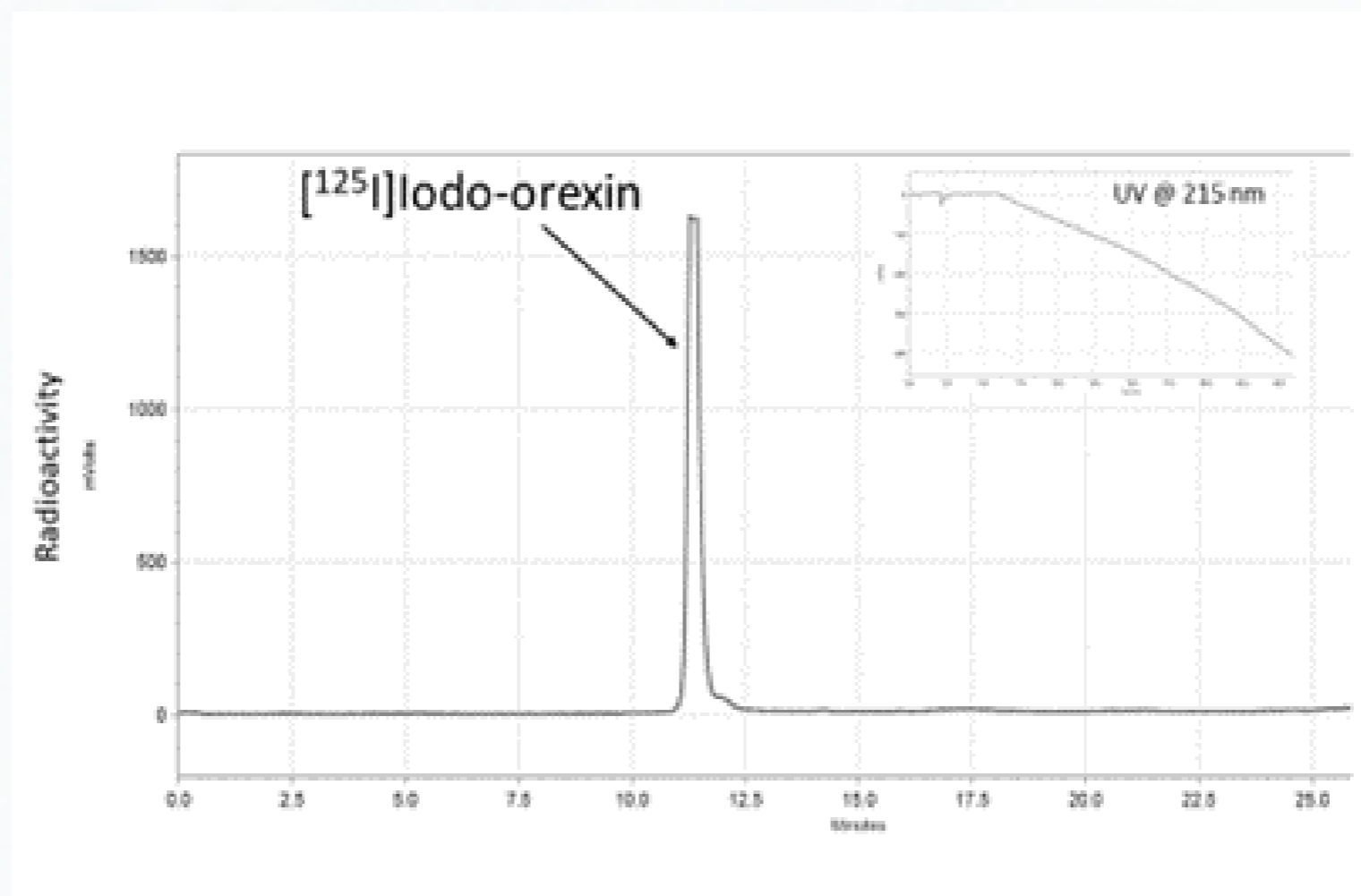


Figure 5: QC check on HPLC-purified [¹²⁵I]iodo-orexin.

HPLC conditions

Column: C18 4.7 x 150 mm

Mobile phase: Gradient 25 – 40 % ACN, 0.1 % TFA

Flow rate: 1 ml/min

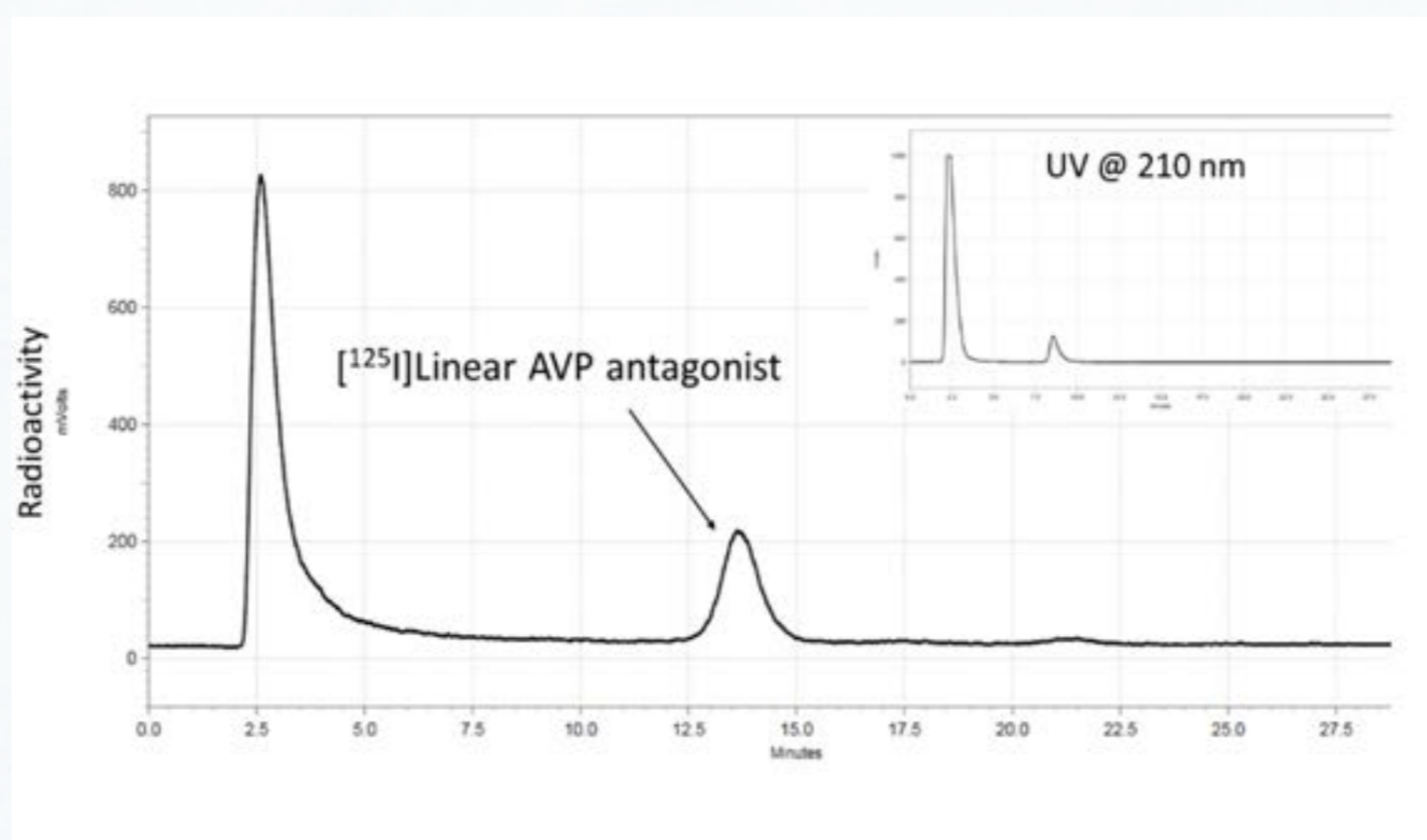


Figure 6: Radiosynthesis and HPLC purification of ([¹²⁵I]Phenylac1,D-Tyr(Me)₂,Arg₆₋₈,Lys-NH²)-vasopressin (“Linear AVP antagonist”), prepared via the lactoperoxidase method.

HPLC conditions

Column: C18 4.7 x 10 mm

Mobile phase: Gradient 30 – 50 % MeOH, 0.1 % TFA

Flow rate: 0.4 ml/min