Solid phase synthesis of iodinated Dmt-D-Ala-Phe-Orn, a 
µ-opioid peptide
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critical step to obtain the necessary building block of the subsequent synthesis of the 
iodinated peptide. This was done by the use of the reagent bis(pyridine)iodonium 
tetrafluoroborate to add iodine to dimethyl tyrosine. Successful iodination of fmoc 
protected dimethyl tyrosine has been confirmed by $^1$HNMR, $^{13}$CNMR and Maldi-tof. The 
iodinated Dmt-D-Ala-Phe-Orn was prepared via solid phase synthesis. The protected 
amino acids were added in sequence from ornithine to I-dimethyl tyrosine to form the 
full peptide. The final product was successfully characterized via LCMS. The final 
peptide may be useful for targeting the brain's µ-opioid receptors.