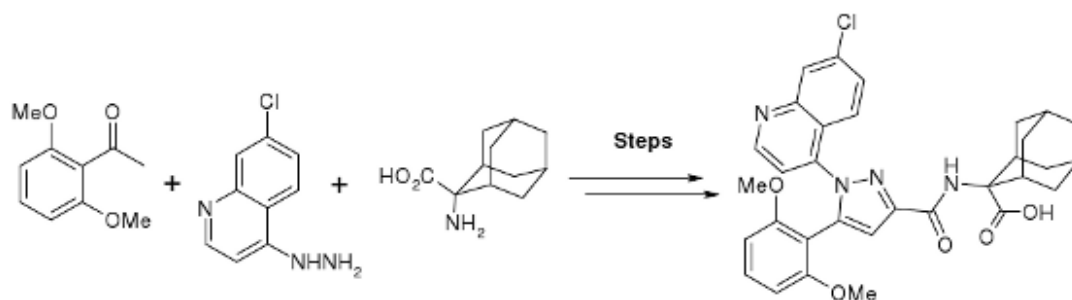


## Publication 26: Flow Synthesis of the Neurotensin-1 Receptor Probe Meclinertant (SR48692)



A synthesis of the neurotensin 1 receptor probe Merclinertant (SR48692) has been reported using a range of continuous flow through synthesis, in-line reaction monitoring and purification techniques. This strategy has been contrasted with a more conventional batch synthesis approach.

Notably the safe use of phosgene gas (generated in situ), the superheating of solvents to accelerate reaction rates, the processing of a reagent suspension under continuous flow-through conditions and the application of semi-permeable membrane technology to facilitate work-up and purification were all techniques that could be beneficially applied in the synthetic scheme.

**[C. Battilocchio, B. J. Deadman, N. Nikbin, M. O. Kitching, I. R. Baxendale, S. V. Ley, Eur. J. Chem., 2013, DOI: 10.1002/chem.201300696](#)**