

Medicinal Chemistry Services



Ofichem offers a wide range of services in medicinal chemistry. Our PhD qualified scientists have considerable drug discovery experience across a wide range of biological targets and therapeutic areas. Working in close collaboration with our customers, we undertake intelligent integrated drug discovery to deliver small molecules with the potential to be advanced from the discovery phase into pre-clinical development, and beyond. We offer full project leadership with the IP rights belonging to the customer.

Computational chemistry is an intrinsic part of our medicinal chemistry projects, and our computational chemists have a solid background in synthetic chemistry.

At Ofichem we offer:

Hit to lead

- Re-synthesis of hits to confirm structure and activity
- Identification and synthesis of analogues to expand hit series to establish early structure activity relationships with the aid of computational chemistry
- Organic synthesis of bioactive small molecules, including parallel synthesis and complex multi-step synthesis
- Compound characterisation, structure determination and purity analysis

Lead optimisation

- Multi-parameter optimisation of lead molecules towards clinical candidates
- Improving ADME properties (e.g. metabolic stability and permeability)
- Prioritisation of compound for proof-of-concept animal studies
- Assist in analytical chemistry and pre-formulation studies
- Scale-up to support profiling studies

Computer-aided drug design

- Structure and ligand-based drug design (docking, virtual screening, scaffold replacement, simple QSAR)
- In silico profiling of compounds with a number of built-in descriptors (e.g. clogP and PSA)

