

The Research Company ...

Contract services for your pharma research

1

Organic and medicinal chemistry

- design and synthesis of small molecules
- in scale from mg up to kg
- expertise in a broad range of synthetic procedures including organo-metallic reactions
- heterocyclic chemistry
- building blocks for peptide synthesis
- focused libraries
- solid phase synthesis
- scale-up development
- analytical support – NMR, LC-MS/MS, UPLC, IR

2

Peptide synthesis

- derivatized peptides up to 60 amino acids
- cyclization, side chains, linkers
- robotic or manual synthesis from mg to hundreds of g
- purification on prep HPLC (column ID up to 300 mm)
- UPLC and LCMS analytical data

3

GMP and GLP services - Preclinical batches

- certified GMP production of API for human and veterinary pharma products
- small and intermediate scale (tens of kg)
- expertise in peptides
- reactors for solution and solid phase reactions
- preparative HPLCs

4

Experimental pharmacology (in-vivo)

- brand-new high standard conventional animal facility
- day capacity of 5 400 mice, 2 160 rats, 750 hamsters and 240 guinea pigs
- preliminary PD/PK/MTD data, exploratory studies
- expertise in diabetes, dyslipidemia, obesity, inflammation and autoimmune diseases

Specific pharmacological models of acute and chronic inflammation:

- Acute inflammation
- Neurogenic inflammation
- Allergic inflammation
- DTH/Contact sensitivity
- Septic shock
- Adjuvant arthritis
- Collagen-induced arthritis
- Monoclonal antibody/LPS induced arthritis
- Acute EAE

Specific pharmacological models of metabolic syndrome

- High cholesterol diet-induced dyslipidemia
- db/db mice
- ob/ob mice
- Zucker fatty rats
- Diabetic Zucker fatty rats
- DIO rats and mice

RESEARCH & DEVELOPMENT IN CHEMISTRY AND PHARMACOLOGY



Science in the heart of EU, Prague, Czech Republic



The Research Company ...

Experimental
Pharmacology

Peptide
Synthesis

Organic
chemistry

GMP
Services

