



PRECLINICAL INHALATION
IN VIVO & IN VITRO SERVICES



MVIC

www.mvic.se

Preclinical Inhalation

- Tailored to Your Project Needs

✓ OPTIMIZATION OF AEROSOL DELIVERY FOR EFFICACY AND TOXICOLOGY STUDIES

- Particle size measurement
- Deposition prediction
- Excipient evaluation
- Optimization of concentration/exposure

✓ ADMINISTRATION TECHNIQUES

- Intranasal
- Intratracheal instillation
- Wet and dry aerosol
- Nose only exposure
- Whole body exposure

Efficient and Flexible Expertise with Extensive Experience of Designing, Performing and Reporting Preclinical Studies

✓ IN VITRO

- A wide range of cell-based assays for mode-of-action and efficacy/potency studies, including ALI (Air-Liquid Interface) cultures
- Biochemical assays
- Biomarker analysis
- Protein engineering and genotyping
- In vitro bioavailability (CaCo and CaLu)

✓ IN VIVO

- Client customized efficacy (PD) models within e.g. inflammation (respiratory, CV, GI), oncology, wound infection and surgical intervention.
- Pharmacokinetic (PK) studies
- PK/PD relationship and dose prediction
- Small animal imaging (optical, MRI, CT and PET)
- Lung irritancy
- Inhalation toxicology packages (in collaboration)



- *Aerosol systems tailored to client needs*
- *Standardised procedures and high level of control assures effective and reproducible execution*
- *Safety and well-being of the animals are of paramount priority*

Consultancy Services with Emphasis on Pharmacology, Translational Science and Business Development



PHARMACOLOGY

- Strategic project plans incl. Target Product Profile (TPP)
- Preclinical study design; study protocols
- Preclinical inhalation expertise
- Regulatory preclinical development plans and documentation



BUSINESS DEVELOPMENT

- Market research and evaluation
- Evaluation of project ideas and projects
- Business plans and business cases
- Advice on in & out-licensing incl. presentation material
- Advice on early financing



TRANSLATIONAL SCIENCE

- Translational medicine plans
- Biomarker plan; identification and implementation for preclinical and clinical use

Our team has a long standing experience and expertise in respiratory research and inhalation drug development.

MVIC OFFERS ITS SERVICES AS A SINGLE COMPANY

- One CDA
- One proposal
- One supplier agreement
- One invoice
- One contact person
- One project manager
- One accountable supplier



MVIC AB – YOUR PARTNER AND CRO FOR **INHALATION** PRODUCT DEVELOPMENT

When heading major inhalation development projects, there are three things that will qualify you for success.

The first is a very skilled project manager, i.e. yourself. The second and third are a full-fledged span of competence and a vast experience in inhalation technology. That's us.

At MVIC we discuss strategic aspects of device and formulation development with our clients. Already at the first meeting we give professional aspects on how ideas and early development should be developed into inhalation products.

Working with us, you will often get straightforward answers to complex questions. You will be amazed.

Our project managers and specialists have worked in the outmost frontline of the world when it comes to inhalation technology.

Most of us also have a very sharp business approach from years in top management and vast experience in working with a wide range of small to large pharma clients in pharmaceutical development projects.

We are a CRO and Partner with more than 70 project managers and specialists in Discovery, Formulation, Regulatory, Device and Product Development.

We are located in Lund, a part of Southern Sweden with its cluster of universities, hospitals and pharmaceutical industries in Southern Scandinavia.

CONTACT

For contact and more information

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