Preclinical Inhalation

In Vivo & In Vitro Services

MVIC

MEDICON VALLEY INHALATION CONSORTIUM

Your Partner and CRO for Inhalation Product Development

www.mvic.se
Preclinical Inhalation – Tailored to Your Project Needs

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

OPTIMIZATION OF AEROSOL DELIVERY FOR EFFICACY AND TOXICOLOGY STUDIES
- Particle size measurement
- Deposition prediction
- Expector evaluation
- Optimization of concentration/exposure

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

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 toxicity packages (in collaboration)

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

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

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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

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

– 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
MVIC AB – Your Partner and CRO for Inhalation Product Development

Medicon Valley Inhalation Consortium, MVIC, is a full service CRO specialized in inhalation product development and is located in Skåne in the Medicon Valley area.

MVIC offers world class expertise within the field of inhalation, covering the whole value chain from drug discovery, development to Phase I/II.

MVIC has facilities approved according to Good Manufacturing Practice, GMP, well equipped labs, advanced instrumentation and highly skilled staff.

MVIC AB has more than 70 inhalation experts and represents over 1000 years of inhalation experience!

Contact

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