

## We Provide Complete Solutions

Therapeutic antibodies have shifted to the center of the drug market with well established block busters available and an increasing number of new or 2<sup>nd</sup> generations and generic antibodies in development.

GLYCOTOPE is a specialist for analyzing, engineering and optimizing the glycosylation of antibodies. Take advantage of GLYCOTOPE's state-of-the-art recombinant antibody technologies, bioassays to analyze the activity of antibodies, pharmacokinetic and –dynamic studies in animal models and finally an extensive track-record in cell line development, production process development and GMP production of the API or the drug for clinical trials. Our broad experience allows us to find customized and complete solutions.

### ■ Recombinant Antibody Engineering

Recombinant expression of **IgG** and **IgM** antibodies:

- Identification & cloning of mouse hybridoma VL & VH sequences
- Chimerization & humanization
- Generation of antibody fragments or constructs, e.g. multibodies

### ■ Antibody Improvement – GlycoEngineering (GlycoExpress™)

Expression of antibodies with a fully human and optimized glycosylation & sialylation for improved activity and favorable pharmacokinetics.

### ■ High-Yield Cell Clone Development and Antibody Purification

Development of serum-free and high-yield cell clones, based on **CHO** cells and our proprietary human cell lines **GlycoExpress™**. Within a few weeks you receive your recombinant and purified antibody. USP + DSP development available.

### ■ Biochemical Antibody Characterization

We analyse the biochemical & immunological properties by a range of techniques, e.g. FACS®, Biacore®, Immunocytochemistry, ELISA, Scatchard blots, analysis of aggregate formation by SEC and Dynamic Light Scattering (Zetasizer Nano), analysis of glycosylation (see also GlycoServices).

### ■ Preclinical Evaluation and Functional Characterization

Well established *in vivo* and *in vitro* assays:

- Pharmacokinetic properties, biodistribution and therapeutic potential in mice or rats. Numerous animal models, especially in the field of cancer.
- Cellular assays, e.g. ADCC, CDC, phagocytosis and internalisation (see also Immuno & Cell Services).

## Facts & Figures

- Founded in 2001
- Privately owned
- Financing round of > 50 mEUR
- > 120 employees
- Certified according to DIN EN ISO 9001:2008

## Management

- Dr. Steffen Goletz, CEO / CSO
- Dr. Franzpeter Bracht, CFO / CBO
- Dr. Hans Baumeister, COO

## Business Contacts

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Technology 

Biopharmaceuticals 

Services 

- Recombinant glycoprotein & antibody engineering, e.g. glyco**optimization** & humanization
- Glyco**Analyt**ics & Glyco**Profil**ing of cells and proteins
- High yield production cell clone development
- Range of *in vitro* and *in vivo* assays for preclinical evaluation
- Dendritic cell based assays
- GMP process development & production



Some of the services are provided regionally, only.

# Radio-Services for Preclinical Evaluation

## We Apply Specialist's Know-How to Delicate Tasks

Radiolabelling of drug candidates offers the possibility to study relevant biopharmaceutical properties *in vitro* as well as *in vivo*.

Glycotope offers its broad experience in labelling, handling and performing tests for bioactivity, biodistribution, pharmacokinetic and efficacy, using imaging or therapeutic radionuclides. Special know-how is available for evaluating antibodies of various formats.

### ■ Labelling

We label your substance, protein, antibody or peptide with  $\gamma$ - or  $\beta$ -emitters, e.g. 99m-Tc, 111-In, 131-I, 125-I, 90-Y and analyse its stability and quality using physicochemical or biochemical techniques.

### ■ In Vitro Bioassays

We characterize the biochemical and functional properties of your labeled substance. Various assays are available to investigate e.g. stability, affinity, binding sites and receptor mediated internalization.

### ■ In Vivo Studies

Investigate the pharmacokinetics, biodistribution and therapeutic potential in mice or rats. Numerous animal models are available, especially in the field of cancer.

We provide customized solutions for the individual requirements of your project.

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