

## PRESS RELEASE

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### ProBioGen Presents GlymaxX - The Novel Glyco-Engineering Technology

Berlin, Germany, November 11, 2010: ProBioGen announces the launch of its innovative Glyco-Engineering Technology “GlymaxX” for the generation of afucosylated antibodies with strongly increased potency. GlymaxX is a universally and rapidly applicable technology to enhance the ADCC effector function and thus strongly boosting the cell-killing capability of therapeutic antibodies.

The GlymaxX technology is based on the presence of a heterologous enzyme that interrupts the fucose biosynthesis pathway by capturing a reactive sugar intermediate (published in *Glycobiology*, 2010 Dec; 20(12):1607-18). As a unique feature, differentiating it from other approaches, the GlymaxX technology can be applied to already existing pharmaceutical antibody producer cell lines without altering their productivity.

The applicability and efficiency of the GlymaxX technology have been confirmed already in feasibility studies of several major European pharmaceutical corporations. The GlymaxX technology is available to interested parties under a license.

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#### About ProBioGen’s GlymaxX Technology

ADCC (Antibody-Dependent Cell-mediated Cytotoxicity) activity is an important antibody function mediating the selective killing of their target cells, e.g. cancerous or pathogen-infected cells. Several commercial anti-cancer and auto-immune antibody products rely on ADCC as a mechanism of action. ADCC enhancement increases the treatment effect, potentially even in previously non responding patients. It also may allow reducing the dosage, thereby lowering side effects and saving treatment costs.

ProBioGen’s GlymaxX Technology employs metabolic cell engineering to minimize the amount of fucose attached to antibody N-glycans. Low expression levels of the modifying enzyme are sufficient to achieve the full effect. The GlymaxX technology is simple, rapid and potent, and can be applied to any antibody producer cell line, irrespective of species origin.

ProBioGen offers flexible milestone-based business models, which can omit royalties.

#### About ProBioGen - [www.probiogen.de](http://www.probiogen.de) -

ProBioGen is a renowned Contract Development and Manufacturing Organization with a focus on cell line engineering, process development and GMP manufacturing of biopharmaceuticals with over 15 years of experience in mammalian cell culture. Combined with its innovative scientific excellence and its strong intellectual property base ProBioGen is an established CDMO, covering the entire drug development value chain, including regulatory support for IND-filing. All services and technologies

are embedded in a total quality management system to assure compliance with international ISO and GMP standards (EMA/FDA). Besides its proven CHO platform ProBioGen has developed proprietary AGE1® producer cell lines as GMP-compliant cell substrates for safe and cost-efficient production of therapeutic proteins and virus-based vaccines. ProBioGen employs a broad portfolio of qualified cell-based assays, including its proprietary Human Artificial Lymph Node technology. ProBioGen was founded in 1994 and is located in Berlin, Germany.

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