



ACTIVE BIOSCIENCE
PROTEINS · CELLS · ANTIBODIES

Custom production



- Production in *E. Coli*, Insect- and HEK-cells
- Great variety of scales
- Fast project implementation



Custom production

Active Bioscience offers custom production of recombinant proteins in *E. Coli*. This can start with gene cloning into an appropriate expression vector, followed by screening and selection of the optimal clone for production. The initial fermentation starts in small volumes and if necessary can be upscaled to bulk fermentation. Protein purification is also possible in different scales and with a variety of techniques. Usually we start with the adaptation of an existing in house process to speed up the development and to be as cost effective as possible for our customer. To ensure the safety of the process we use a defined medium for the production.

If the desired protein needs further modification like cleavage of a signal peptide, disulfide bridges or post-translational modifications as well as glycosylation we offer production in insect cells. The system is as modular as the productions in *E. Coli*. For both system offer a very cost-effective entry level and each step is available separately. Our production is ISO 9001: 2015 certified.

Custom production in *E. Coli*

Production step		Time frame
Cloning	Standard cloning	2-4 weeks
	PCR-cloning	4-6 weeks
Generation of recombinant <i>E. Coli</i> strain		1-3 weeks
Optimization of production conditions		1-3 weeks
Generation of biomass (e.g. 2 liter scale)		1 week
Establishment of the purification protocol		depending on the protocol

Custom production in insect cells

Production step		Time frame
Gene cloning into a baculovirus transfer	no tag	1-4 weeks
	with tag	4-6 weeks
Recombinant baculovirus generation		7-10 weeks
High titer stock production		3-4 weeks
Optimization of production conditions		2-4 weeks
Larger scale protein production from 10ml onwards		depending on desired volume
Protein purification		depending on desired volume

About us

Active Bioscience was founded in 2006 by Dr. Bärbel Icheln after she gained experience in production and sales of recombinant proteins in research grade and under GMP at Strathmann Biotech GmbH. Active Bioscience produces recombinant proteins such as chemokines, cytokines and growth factors for cell culture, as well as antibodies and enzymes in Germany.