Custom-made recombinant proteins

We offer our design and production service of custom-made recombinant proteins. This service includes the initial design of the protein and its optimal production in *Escherichia coli* or in *Pichia pastoris* as heterologous expression systems.

STUDY OF THE PROJECT

Study of the gene sequence, theoretical sequence analysis, selection of a heterologous expression system, selection of the optimal expression vector, design of the specific primers, codon optimization of the gene, etc.

OPTIMIZATION OF EXPRESSION LEVELS

Screening and selection of induction conditions, expression and solubility, MCB and WCB stocks production, for reproducibility of future lots, etc.

DOWNSTREAM PROCEDURE

Design of the complete process of purification of the target protein by using different chromatographic procedures, ultrafiltration, diafiltration, etc.

QUALITY CONTROL

Purity, integrity, stability, macroaggregation and microaggregation (SEC), western blot analysis, Maldi-TOF and inmunoassays (western blot, ELISA)

PROTEIN DELIVERY

Storage in sterile labeled plastic vials at -80°C until release. Shipped with dry ice as a refrigerant. Possibility of offering lyophilized protein

DNA CONSTRUCTION

Amplification by PCR, clone of the target DNA in a selected expression vector, validation of the selected clone by sequencing and restriction analysis. Possibility of using different fusion tails and different secretion peptides

UPSTREAM PROCEDURE

Obtention of the seed in batch by shaker and scale-up to bio-fermenters

FORMULATION

Optimization of the formulation of the protein storage buffer based on the use that will be subsequently given to the required protein

PROJECT INFORMATION

Keeping you constantly informed on the project progress



Service detail:

- The price of the service guarantees 3 to 5 mg of protein.
- Purity greater than 95%, analysed by SDS-PAGE Coomassie-stained gels.
- The purified protein can be sent with dry ice (liquid form) or at room temperature (lyophilised form), depending on the destination country.
- A detailed data-sheet including the characteristics of the recombinant protein and QC performed will be provided.
- The protein will be avaliable for futher bulk orders at reduced price by increasing the required amounts.
- The custom-made service project will be divided into various work milestones. Each milestone will consist of a series of phases whose development will be explained in the quotation.



Tel: +34 958 63 70 85 E-mail: info@rekombiotech.com Web: www.rekombiotech.com

Custom-made polyclonal antibodies

We offer our production service of custom-made polyclonal antibodies.

ANTIBODY GENERATION

Immunization of a 10-week-old New Zealand white rabbit (female). Inoculations with a total of 5 mg of protein and bleeding at 3 months (approximately)

VALIDATION AND QUALITY CONTROL

ELISA and Western blot titration using the protein inoculated to the rabbit



Purification of the antibody obtained from immune blood by affinity chromatography (protein G)

PROJECT INFORMATION

Keeping you constantly informed on the project progress

ANTIBODY DELIVERY

Storage in sterile labeled plastic vials at -80°C until release. Shipped with dry ice as a refrigerant. Possibility of offering lyophilized antibody.

Service detail:

- The price of the service guarantees up to 10 mg of antibody, aliquoted in 1 mg fractions.
- The purified antibody can be sent with dry ice (liquid form) or at room temperature (lyophilised form), depending on the destination country.
- A detailed data-sheet including the characteristics of the antibody and QC performed will be provided.
- The custom-made service project will be divided into various work milestones. Each milestone will consist of a series of phases whose development will be explained in the quotation.



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