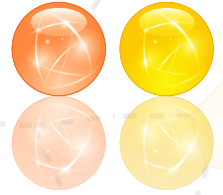


# Recombinant Protein Production & Purification

## Gene to Protein

### Quality Proteins for Functional Studies



Bio-Synthesis' streamlined protein expression services can take your project directly from gene synthesis to protein expression, purification, and stable cell line generation. In addition to multiple protein expression systems, Bio-Synthesis offers a flexible production scale with a full range of purification options, as well as the dedication of our scientists aimed at obtaining the proteins of your choice. With Bio-Synthesis, you can expect an inspired performance.

### Recombinant Protein Expression

Service	E. Coli	Baculovirus	Mammalian
Construct Generation and Subclone	✓	✓	✓
Transfect/Transform	✓	✓	✓
Clone Verification by Sequencing and Restriction Analysis	✓	✓	✓
Propagate Cell Lines	✓	✓	✓
Optimization of Expression in Multiple Strains	✓	✓	✓
Cell Line and Medium Optimization	✓	✓	✓
Growth & Expression Condition Optimization	✓	✓	✓
Large Scale Expression	✓	✓	✓
Purification & Characterization	✓	✓	✓

### Recombinant Protein Expression

- ▶ Inclusion body isolation
- ▶ Protein refolding
- ▶ Endotoxin removal
- ▶ Affinity-tag purification
- ▶ Protein A/G affinity column
- ▶ Ionic exchange, FPLC, HIC, HPLC

### Method Development

- ▶ Optimize conditions for protein purification
- ▶ Develop novel protein purification protocol
- ▶ Scale-up production
- ▶ Resin binding, solubility, refolding screening
- ▶ Affinity tag availability & cleavage screening
- ▶ Antibody screening by ELISA or western blot

### Large-Scale Production

- ▶ Bacterial fermentation
- ▶ Baculovirus/insect cell production
- ▶ Mammalian cell production

### Protein Characterization & Auxiliary Services

- ▶ Protein characterization: Western blot, sequencing, AAA, activity assays
- ▶ Molecular biology services: Cloning, mutagenesis, libraries
- ▶ Antibody production
- ▶ And much more ...

[www.biosyn.com](http://www.biosyn.com)

Service across Genomics, Proteomics, and Cell Biology



**bioSYNTHESIS**  
COMMITTED TO BIOMIC RESEARCH

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