

CYTOMO RESEARCH INSTITUTE

美国思妥美研究所

RESEARCH & SERVICES

The core activity for our groups is involved in high throughput screening, functional validation and structural biology of protein. Our complex and unpredictable process put severe pressure on central facilities or individual researchers, particularly as they may be faced with producing large numbers of diverse proteins.

CytoMo Recombinant Protein Expression Service is a complete solution for your needs, helping your organization to deal with the protein bottleneck. The service combines a variety of expression systems (bacterial, baculovirus, yeast and mammalian cells), across a range of scales, with a full range of purification options, providing you with the material that you require for your application. The service spans vector construction through to purification of ready to use protein and can be tailored to meet your exact requirements.

Construct Generation:

- Clone coding sequence into one of a wide range of expression vectors
- The expression construct will be fully sequence verified
- Preparation of plasmid construct DNA

Assessment and Optimization:

- Introduce plasmid construct DNA into bacterial/mammalian cells
- Selection of over-expressing cells
- Small scale expression and purification study assessed by SDS-PAGE and

Scale-up and Purification:

- Large-scale growth of over-expressing cells
- Cells are harvested and lysed
- Protein typically purified from cleared lysate via purification tag.

Recombinant Protein Production Team

Your project will be managed by a team with extensive experience in the expression and purification of a wide range of proteins in both bacterial and mammalian systems. All of our services are fully supported by scientists who directly manage your project and are on hand to develop and support a service that meets your exact requirements.