

Mammalian Cell Expression

Mammalian cell expression systems incorporate appropriate and often critical post-translation modifications that may impact protein stability and function. These systems are preferred in cases that require biologically functional protein. Proteos leverages their extensive experience and knowledge to optimize these systems for maximum protein yield and quality.

Licensed cell lines:

- HEK (human embryonic kidney)
- CHO (Chinese hamster ovary)

Services:

- Analytical scale protein production and yield determination: 50 mL and 100 mL
- Pilot scale protein production and yield determination: 1-4 L
- Scale-up protein production: up to 60 L culture volume

GETTING STARTED

Construct design, plasmid DNA isolation, sequence verification

PILOT SCALE

HEK or CHO cells, 50 mL to 4 L shake flask culture, ideal for expression testing

PRODUCTION SCALE

HEK or CHO cells, 5 L to 60 L shake flask culture

Scalability:

Proteos employs shake flask culture format from optimization to scale-up resulting in reliable scalability and reproducibility.

Expression optimization:

Construct screening in HEK or CHO cells to achieve optimal levels of recombinant protein expression.

