

Cell-Free Protein Expression Kit [Pro]

The Cell-Free Protein Expression Kit is for in vitro protein synthesis based on E. coli lysate. Coupled transcription/translation systems contain an RNA polymerase and the necessary cellular machinery needed to direct protein synthesis (e.g., ribosomes, translation factors and tRNAs). Supplements such as amino acids, an energy source and NTPs complete the system. Proteins can be expressed using DNA or RNA as templates. Cell-free protein synthesis does not rely on living cells, enabling rapid and flexible high-yield protein expression, with numerous advantages over traditional recombinant expression systems:

1. Time Saving: express target proteins in 1~2 hours, with peak yield achieved in 8~24 hours.
2. High Expression Level: up to more than 3 mg/mL.
3. Easy To Operate: only DNA or RNA template needs to be added, and the reaction can be performed using 96-well plates or centrifuge tubes.

Catalog No.	507002
Size	20 rxns
Product Category	Cell-Free Protein Expression
Application	Insoluble protein, chaperone proteins added to enhance folding, improve solubility, and reduce the formation of inclusion bodies
Yield	Up to 2mg / mL
Kit Components	1. Pro Cell-free system solution A (Lyophilized): 300uL after reconstitution 2. Pro Cell-free system solution B (Lyophilized): 600uL after reconstitution 3. CFPS-Control Plasmid: 2ug
Storage/Stability	-20°C/1 year
Shipping	Gel Packs