

Cell-Free Protein Synthesis / Expression Kit

The Cell-Free Protein Synthesis 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.

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| Catalog No. | 507001 |
| Size | 20 rxns |
| Product Category | Cell-Free Protein Expression |
| Application | Standard proteins with diverse molecular weights such as Green Fluorescent Protein, beta--galactosidase, polymerases |
| Yield | Up to 3mg / mL |
| Kit Components | 1. Cell-free system solution A (Lyophilized): 300uL after reconstitution 2. Cell-free system solution B (Lyophilized): 600uL after reconstitution 3. CFPS-Control Plasmid: 2ug |
| Storage/Stability | -20°C/1 year |
| Shipping | Gel Packs |