

# *E. coli* Ribosome



1-800-632-7799  
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P0763S 005150317031

## P0763S

**1 mg**      **13.3 µM**      **Lot: 0051503**  
**RECOMBINANT**    **Store at -80°C**    **Exp: 3/17**

**Description:** The ribosome is the machinery for protein synthesis in a cell. The 70S ribosome consists of a small subunit (30S) and a large subunit (50S). This preparation of ribosome is highly active in the PURExpress Protein Synthesis Kit (NEB #E6800).

Supplied in: 20 mM HEPES-KOH (pH 7.6), 10 mM MgAC<sub>2</sub>, 30 mM KCl, and 7 mM β-mercaptoethanol.

**Concentration:**  
33.3 mg/ml (13.3 µM)  
1 A<sub>260</sub> = 60 µg/ml  
1 mg/ml = 0.4 µM

**Source:** The ribosome is purified from an *E. coli* B strain.

### Applications:

- *In vitro* translation
- Ribosome structural and functional studies
- Target for drug screening
- Starting material for isolation of native ribosomal RNAs (5S, 16S and 23S)

### Quality Control Assays

*E. coli* Ribosome is functionally tested in the PURExpress Protein Synthesis Kit (NEB #E6800).

**Usage Notes:** Avoid multiple freeze/thaw cycles. If you plan to use the ribosome multiple times, we recommend preparing aliquots after first thaw. Handle the ribosome gently, mix by tapping the tube, and avoid vigorous vortexing or high speed centrifugation. Mg<sup>2+</sup> is necessary to keep the ribosome intact. If you are going to dilute the ribosome, be sure to include 10 mM MgAC<sub>2</sub> in the buffer.

### Companion Products:

PURExpress® *In Vitro* Protein Synthesis Kit  
#E6800S      10 rxns  
#E6800L      100 rxns

PURExpress® Δ Ribosome Kit  
#E3313S      10 rxns

PURExpress® Δ RF123 Kit  
#E6850S      10 rxns

PURExpress® Disulfide Bond Enhancer  
#E6820S      50 rxns

PURExpress® Δ (aa, tRNA) Kit  
#E6840S      10 rxns

CERTIFICATE OF ANALYSIS

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