



Recombinant Protein Technical Manual
Recombinant E. coli Lactose Operon Repressor/LacI
Protein (His Tag)
RPES3452

Product Data:

Product SKU: RPES3452

Size: 10µg

Species: E. coli

Expression host: E. coli

Uniprot: P03023

Protein Information:

Molecular Mass: 39.4 kDa

AP Molecular Mass: 40 kDa

Tag: C-His

Bio-activity:

Purity: > 95% as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Shipping: This product is provided as liquid. It is shipped at frozen temperature with blue ice. Upon receipt, store it immediately at < -20°C.

Formulation: Supplied as a 0.2 µm filtered solution of 20mM Tris, 300mM NaCl, 5mM DTT pH 8.0.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Lactose operon repressor; LacI

Immunogen Information:

Sequence: Met1-Gln360

Background:

Lactose operon repressor (LacI) contains one HTH lacI-type DNA-binding domain, functions as a homotetramer. Lactose operon repressor as a repressor of the lactose operon, which also as an inducer, binds allolactose. If remove residues 1-59, resulting the loss of DNA-binding activity but retains tetrameric structure and inducer-binding activity. If delete residues 340-360, resulting the loss of tetramer formation, but retains dimer formation, inducer-binding activity, and DNA-binding activity.