

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

Catalog No. PKSQ050058

Note: Centrifuge before opening to ensure complete recovery of vial contents.

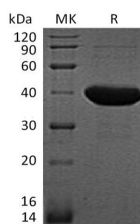
Description

Synonyms	Lactose operon repressor, LacI
Species	E.coli
Expression Host	E.coli
Sequence	Met1-Gln360
Accession	P03023
Calculated Molecular Weight	39.4 kDa
Observed molecular weight	40 kDa
Tag	C-His
Bioactivity	Testing in progress

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein 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/gel packs. 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. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the print
Reconstitution	Not Applicable

Data



> 95 % as determined by reducing SDS-PAGE.

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,

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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.