

Recombinant E.coli LacI, His-tagged

Cat. No. lacI-89E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant E.coli Lactose operon repressor/LacI is produced with our E. coli expression system. The target protein is expressed with sequence (Met1-Gln360) of E.coli LacI fused with a 6His tag at the C-terminus.
Species	E.coli
Source	E.coli
ProteinLength	1-360 a.a.
Description	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.
Form	Supplied as a 0.2 μM filtered solution of 20mM Tris, 300mM NaCl, 5mM DTT pH 8.0
AA Sequence	MKPVTLYDVAEYAGVSYQTVSRVVNQASHVSAKTREKVEAAMAELNYIPNRVAQQL AGKQSLIG VATSSLALHAPSQIVAAIKSRADQLGASVVVSMVERSGVEACKAAVHN LLAQRVSGLIINYPLDD QDAIAVEAACTNVPALFLDVSDQTPINSIIFSHEDGTRLGVE HLVALGHQQIALLAGPLSSVSAR LRLAGWHKYLTRNQIQPIAEREGDWSAMSGFQQ TMQMLNEGIVPTAMLVANDQMALGAMRAITES GLRVGADISVVGYYDDTEDSSCYIP PLTTIKQDFRLLGQTSVDRLLQLSQGQAVKGNQLLPVSLVK RKTTLAPNTQTASPR

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LADSLMQLARQVSRLESGQH HHHHHH

Endotoxin

Less than 0.1 ng/μg (1 IEU/μg).

Purity

Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.

Storage

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

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