

Lactose operon repressor Protein, E. coli, Recombinant (His & SUMO)

General Information

Synonyms: lacI; Lactose operon repressor

Protein Construction: 1-360 aa

Species: E. coli

Expression Host: E. coli

Accession: P03023

Molecular Weight: 54.6 kDa (predicted)

AA Sequence:

MKPVTLYDVAEYAGVSYQTVSRVVNQASHVSAKTREKVEAAMAELNYIPNRVAQQLAGKQSLIGVATSSLA
LHAPSQIVAAIKSRADQLGASVVVSMVERSGVEACKAAVHNLQAQRVSLIINYPLDDQDAIAVEAACTNVPA
LFLDVSQTPINSIIFSHEDGTRLGVEHLVALGHQIALLAGPLSSVSARLRLAGWHKYLTRNIIQPIAEREGD
WSAMSGFQQTMQMLNEGIVPTAMLVANDQMALGAMRAITESGLRVGADISVVGYYDDTEDSSCYIPPLTTIK
QDFRLLGQTSVDRLLQLSQGQAVKGNQLLPVSLVKRKTTLAPNTQTASPRALADSLMQLARQVSRLESQQ

QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 90% as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months.

Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Repressor of the lactose operon. Binds allolactose as an inducer.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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