

Lactose permease Protein, E. coli, Recombinant (His)

General Information

Synonyms:	Lactose-proton symport;lacY;Lactose permease
Protein Construction:	1-250 aa
Species:	E. coli
Expression Host:	E. coli
Accession:	P02920
Molecular Weight:	34.4 kDa (predicted)
AA Sequence:	MYYLKNTNFWMFGLFFFFYFFIMGAYFPFFPIWLHDINHISKSDTGIIFAAISLFSLLFQPLFGLLSDKLGLRKYLL WIITGMLVMFAPFFIFIGPLLQYNILVGSIVGGIYLGFCFNAGAPAVEAFIEKVSRRSNFEFGRARMFGCVGWA LCASIVGIMFTINNQFVFWLGSICALILAVLLFFAKTDAPSSATVANAVGANHSAFSLKLALFLFRQPKLWFLSL YVIGVSCYDVFDQQFANFFTSF

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:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Preparation and Storage

Reconstitution:	Reconstitute the lyophilized protein in sterile deionized 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. <small>Actual storage temperature shall be subject to the COA.</small>
Shipping:	In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Responsible for transport of beta-galactosides into the cell, with the concomitant import of a proton (symport

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system). Can transport lactose, melibiose, lactulose or the analog methyl-1-thio-beta,D-galactopyranoside (TMG), but not sucrose or fructose. The substrate specificity is directed toward the galactopyranosyl moiety of the substrate.

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