

## LprG Protein, Mycobacterium tuberculosis, Recombinant (His & Myc)

### General Information

Synonyms:	27 kDa lipoprotein;lpp-27;lprG;Antigen P27;Lipoprotein LprG;Lipoarabinomannan carrier protein LprG;Triacylglyceride transfer protein LprG
Protein Construction:	27-236 aa
Species:	Mycobacterium tuberculosis
Expression Host:	E. coli
Accession:	P9WK44
Molecular Weight:	29.2 kDa (predicted)
AA Sequence:	CSSGSKPSGGPLPDAKPLVEEATAQTKALKSAHMLTVNGKIPGLSLKTLSGDLTTNPTAATGNVKLTLGGSDI DADFVVF DGILYATLTPNQWSDFGPAADIYDPAQVLNPD TGLANVLANFADAKAEGRDTINGQNTIRISGKV SAQAVNQIAPPFNATQPVPATVWIQETGDHQLAQAQLDRGSGNSVQMTLSKWGEKVQVTKPPVS

### 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/ $\mu$ g 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 $\mu$ g/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

Probably helps membrane protein MT1454 (P55) transport triacylglycerides (TAG) across the inner cell membrane into the periplasm and probably ultimately to the outer membrane. TAG probably regulates lipid metabolism and

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growth regulation. Binds di- and triacylated phosphatidyl-myo-inositol mannosides (PIMs), and glycolipid lipoglycan modulins lipoarabinomannan (LAM) and lipomannan (LM), facilitating their recognition by TLR2. Required for activity of drug efflux transporter MT1454. Required, probably with MT1454, for normal surface localization of LAM.; Constitutes a host TLR2 agonist (toll-like receptor).

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