Recombinant Myobacterium Tuberculosis Chaperonin GroEL

Cat. No. GroEL-1256M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mycobacterium Tuberculosis HSP65 produced in*E.coli.*
Species	Mycobacterium Tuberculosis
Source	E.coli
Description	Heat shock proteins induce pro-inflammatory cytokines. Mycobacterial HSPs participate in cytokine expression resulting from infection by M. tuberculosis. Furthermore, HSPs stabilize cellular proteins in response to various sources of stress or injury. HSP65 is one of the most essential defending immunogens against the tuberculosis infection. HSP65 is presented to human CD41 T cells in association with multiple HLA-DR molecules. The M. tuberculosis HSP65 signals through TLR4.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Formulation	The HSP65 protein was lyophilized from a concentrated (1mg/ml) solution containing 10mM Na-phosphate pH-7.4, 130mM NaCl and 2.5mM KCl.
Solubility	It is recommended to reconstitute the lyophilized HSP-65 in sterile 18MΩ-cm H_2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Stability	Lyophilized HSP65 although stable at room temperature for 3 weeks, should be

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	stored desiccated below -18°C. Upon reconstitution HSP65 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
Pathways	RNA degradation

GENE INFORMATION

Gene Name	groEL chaperonin GroEL [Mycobacterium tuberculosis H37Rv]
Synonyms	chaperonin GroEL; groEL; Rv0440
Gene ID	886354
Protein Refseq	NP_214954

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