

## Recombinant *E. coli* GroEL/HSPD1

<b>Catalog No.</b>	CRH109A	<b>Quantity:</b>	10 µg
	CRH109B		50 µg
	CRH109C		1.0 mg

**Description:** GroEL protein is the major heat shock protein of *E. coli* and belongs to the chaperonin (HSP60) family. GroEL protein prevents misfolding of proteins and promotes the refolding and proper assembly of unfolded polypeptides generated under stress condition. GroEL gene was amplified by PCR from *E. coli* and cloned into an expression vector. This protein was overexpressed in *E. coli* and was purified by using conventional chromatography techniques. Recombinant GroEL produced in *E. coli* is a single, non-glycosylated polypeptide chain containing 548 amino acids and having a MW = 57.3 kDa.

**Source:** *E. coli*

**Formulation:** The protein (1 mg/ml) contains 25 mM Tris-HCl buffer pH 7.5 + 100 mM NaCl + 1 mM DTT + 10% Glycerol.

**Purity:** Greater than 95.0% as determined by analysis by RP-HPLC and by reducing and non-reducing SDS-PAGE Coomassie.

**Storage & Stability:** Store at 2-4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). **Please avoid freeze-thaw cycles.**

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