

hflC Protein, E.coli (His)

Cat. No.:	HY-P701912
Synonyms:	hflC; Modulator of FtsH protease HflC
Species:	E.coli
Source:	E. coli
Accession:	P0ABC4 (M1-R334)
Gene ID:	75202409
Molecular Weight:	

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	The hflC Protein, in collaboration with HflK, plays a pivotal role in regulating the stability of the phage lambda cII protein, thereby exerting control over the lysogenization frequency of phage lambda. Beyond its involvement in phage dynamics, HflC, in conjunction with HflK, forms a complex known as HflKC, originally referred to as HflA. This complex interacts with FtsH, inhibiting its SecY-degrading activity and potentially contributing to the quality control of integral membrane proteins. The interaction between HflKC and FtsH is stimulated by ATP, emphasizing the dynamic nature of this regulatory mechanism. Additionally, HflKC engages with YccA, further expanding its network of interactions and underscoring its multifaceted role in cellular processes.
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Caution: Product has not been fully validated for medical applications. For research use only.

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