Trigger factor Protein, E.coli (P.pastoris, His)

Cat. No.:	HY-P71813
Synonyms:	tig; Trigger factor; TF; EC 5.2.1.8; PPIase
Species:	E.coli
Source:	P. pastoris
Accession:	B7UJQ9 (M1-432A)
Gene ID:	58463319
Molecular Weight:	Approximately 60 kDa.The reducing (R) protein migrates as 60 kDa in SDS-PAGE maybe due to relative charge.

PROPERTIES

AA Sequence	MQVSVETTQG LGRRVTITIA ADSIETAVKS ELVNVAKKVR IDGFRKGKVP MNIVAQRYGA SVRQDVLGDL MSRNFIDAII KEKINPAGAP TYVPGEYKLG EDFTYSVEFE VYPEVELQGL EAIEVEKPIV EVTDADVDGM LDTLRKQQAT WKEKDGAVEA EDRVTIDFTG SVDGEEFEGG KASDFVLAMG QGRMIPGFED GIKGHKAGEE FTIDVTFPEE YHAENLKGKA AKFAINLKKV EERELPELTA EFIKRFGVED GSVEGLRAEV RKNMERELKS AIRNRVKSQA IEGLVKANDI DVPAALIDSE IDVLRRQAAQ RFGGNEKQAL ELPRELFEEQ AKRRVVVGLL LGEVIRTNEL KADEERVKGL IEEMASAYED PKEVIEFYSK NKELMDNMRN VALEEQAVEA VLAKAKVTEK ETTFNELMNQ QA
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Trigger factor protein is integral to protein export, serving a dual role as a chaperone that aids in the proper folding of newly synthesized proteins and as a peptidyl-prolyl cis-trans isomerase. In its chaperone capacity, trigger factor plays a crucial role in maintaining the nascent polypeptide in an open conformation, facilitating the intricate process of protein folding. Simultaneously, its peptidyl-prolyl cis-trans isomerase activity contributes to the isomerization of prolyl peptide bonds, further refining the conformational landscape of the emerging protein. This multifaceted involvement underscores trigger factor's significance in the intricate orchestration of cellular protein homeostasis and export mechanisms.

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