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Product Data Sheet

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TsaE Protein, E.coli

Cat. No.:	HY-P71500
Synonyms:	tsaE; yjeE; b4168; JW4126tRNA threonylcarbamoyladenosine biosynthesis protein TsaE; t(6)A37 threonylcarbamoyladenosine biosynthesis protein TsaE
Species:	E.coli
Source:	E. coli
Accession:	P0AF67 (1M-153G)
Gene ID:	60902986
Molecular Weight:	Approximately 16.9 kDa

PROPERTIES
AA Sequence
КТ
LY
D V
Appearance Lyo
Formulation Lvo
Endotoxin Level <1 E
Reconsititution It is
Storage & Stability Sto
reco

DESCRIPTION

Background	TsaE stands as a crucial factor in the intricate process of tRNA modification, specifically in the formation of a
	threonylcarbamoyl group on adenosine at position 37 (t(6)A37) in tRNAs that decode codons commencing with adenine. Its
	involvement is proposed in facilitating the transfer of the threonylcarbamoyl moiety from threonylcarbamoyl-AMP (TC-AMP)
	to the N6 group of A37, working collaboratively with TsaD and TsaB. While TsaE's exact role in the t(6)A biosynthesis
	pathway is still elucidated, it is suggested to exert indirect influence, potentially regulating the core enzymatic function of
	TsaD. Intriguingly, TsaE showcases ATPase activity in vitro, underscoring its dynamic engagement in molecular processes
	critical for tRNA modification.

Caution: Product has not been fully validated for medical applications. For research use only.

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