YidC Protein, E.coli (Cell-Free, His)

Cat. No.:	HY-P702491
Synonyms:	Membrane protein insertase YidC; Foldase YidC; Membrane integrase YidC; Membrane protein YidC
Species:	E.coli
Source:	E. coli Cell-free
Accession:	A8A6G7 (M1-S548)
Gene ID:	75205420
Molecular Weight:	63.0 kDa

PROPERTIES

AA Sequence	MDSQRNLLVI ALLFVSFMIW QAWEQDKNPQ PQAQQTTQTT TTAAGSAADQ GVPASGQGKL ISVKTDVLDL TINTRGGDVE QALLPAYPKE LNSTQPFQLL ETSPQFIYQA QSGLTGRDGP DNPANGPRPL YNVEKDAYVL AEGQNELQVP MTYTDAAGNT FTKTFVLKRG DYAVNVNYNV QNAGEKPLEI STFGQLKQSI TLPPHLDTGS SNFALHTFRG AAYSTPDEKY EKYKFDTIAD NENLNISSKG GWVAMLQQYF ATAWIPHNDG TNNFYTANLG NGIAAIGYKS QPVLVQPGQT GAMNSTLWVG PEIQDKMAAV APHLDLTVDY GWLWFISQPL FKLLKWIHSF VGNWGFSIII ITFIVRGIMY PLTKAQYTSM AKMRMLQPKI QAMRERLGDD KQRISQEMMA LYKAEKVNPL GGCFPLLIQM PIFLALYYML MGSVELRQAP FALWIHDLSA QDPYYILPIL MGVTMFFIQK MSPTTVTDPM QQKIMTFMPV IFTVFFLWFP SGLVLYYIVS NLVTIIQQQL IYRGLEKRGL HSREKKKS
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 μm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
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. For long term storage it is recommended to add 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.
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	YidC Protein emerges as a critical player in the intricate processes governing the insertion, folding, and complex formation of integral membrane proteins within the cellular membrane. Its versatile role encompasses facilitating the integration of membrane proteins that rely on both Sec translocase-dependent and -independent pathways, extending its functional impact to a diverse range of cellular processes. Beyond mere insertion, YidC is instrumental in aiding the proper folding of multispanning membrane proteins, contributing to the intricate three-dimensional architecture essential for their functionality. Notably, YidC establishes interactions with the Sec translocase complex, forming a collaborative network with components like SecD. Its specific interaction with transmembrane segments during the integration process underscores its nuanced involvement in the meticulous orchestration of membrane protein biogenesis.

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