

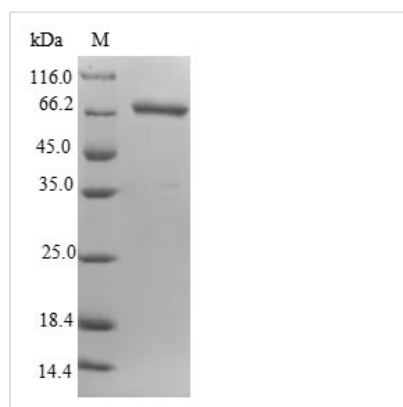


Recombinant Escherichia coli Putative binding protein ygiS (ygiS)

Product Code	CSB-EP673863ENV
Relevance	Probably part of a deoxycholate transport system. Its expression in the presence of deoxycholate in a ygiS deletion mutant increases intracellular deoxycholate levels and decreases cell growth; higher expression in the presence of deoxycholate inhibits cell growth completely. Bile acid detergents such as deoxycholate are important for host defense against bacterial growth in the gall bladder and duodenum.
Abbreviation	Recombinant E.coli ygiS protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q46863
Product Type	Recombinant Protein
Immunogen Species	Escherichia coli (strain K12)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	ADV PANTPLAPQQVFRYNNHSDPGTLD P QKVEENTAAQIVL DLF EGLVWMDG EGQVQPAQAERWEILDG GKRYIFHLRSLQWSDGQPLTAEDFVLGWQRAVD PKTASPFAGYLAQAHINNA AIVAGKADV TSLGVKATDDRTLEVTLEQPVPWFT TMLAWPTLFPVPHHVI AKHGDSWSK PENMVYNGAFVLDQWVVNEKITARKNP KYRDAQHTVLQQVEYLALDNSVTGYNRYRAGEVDLTWVPAQQIPAI EKSLPGE LRIIPRLNSEYYNFNLEKPPFNDVRVRRALYLTVD RQLIAQKVLGLRTPATTLTP PEVKGFSATT FDELQKPMSE RVAMAKALLKQAGYDASHPLRFELFY NKYDLHE KTAIALSSEWKKWLGAQVTLRTMEWKT YLDARRAGDFMLSRQSWDATY NDA SSFLNTLKSDSEENVGHWKNAQYDALLNQATQITDATKRNALYQQAEVIINQQ APLIPIYYQPLIKLLKPYVGGFPLHNPQDYVYSKELY IKAH
Research Area	others
Source	E.coli
Target Names	ygiS
Protein Names	Recommended name: Putative binding protein ygiS
Expression Region	21-535aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged
Mol. Weight	74.4kDa
Protein Length	Full Length of Mature Protein



Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

Constructing a plasmid encoding the Escherichia coli (strain K12) ygiS protein (21-535aa) initiates the general approach for generating the recombinant Escherichia coli (strain K12) ygiS protein. Transformation of the plasmid into e.coli cells obtains the plasmid-containing e.coli cells, which are cultured and induced for protein expression. A N-terminal 6xHis-SUMO tag is fused to the protein. Subsequently, the protein is purified through affinity purification, and SDS-PAGE analysis is undertaken to confirm the presence and assess the purity of the protein. The protein's purity exceeds 90%.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.