

ygjS Protein, E.coli (His-SUMO)

Cat. No.:	HY-P71556
Synonyms:	ygjS; b3020; JW2988; Probable deoxycholate-binding periplasmic protein YgjS
Species:	E.coli
Source:	E. coli
Accession:	Q46863 (21A-535H)
Gene ID:	947140
Molecular Weight:	Approximately 74.4 kDa

PROPERTIES

AA Sequence

ADV PANTPLA	PQQVFRYNNH	SDPGTLDPQK	VEENTAAQIV
LDLFEGLVWM	DGEGQVQPAQ	AERWEILDGG	KRYIFHLRSG
LQWSDGQPLT	AEDFVLGWQR	AVDPKTASPF	AGYLAQAHIN
NAAAIVAGKA	DVTSLGVKAT	DDRTL EVTLE	QPVPWF T TML
AWPTLFPVPH	HVIAKHGDSW	SKPENMVYNG	AFVLDQWVVN
EKITARKNPK	YRDAQHTVLQ	QVEYLALDNS	VTGYNRYRAG
EVDLTWVPAQ	QIPAI EKSLP	GELRIIPRLN	SEYYNFNLEK
PPFNDVRVRR	ALYLTVDRQL	IAQKVLGLRT	PATTLTPPEV
KGFSATTFDE	LQKPMSEVA	MAKALLKQAG	YDASHPLRFE
LFYNKYDLHE	KTAIALSSEW	KKWLGAQVTL	RTMEWKTYLD
ARRAGDFMLS	RQSWDATYND	ASSFLNTLKS	DSEENVGHWK
NAQYDALLNQ	ATQITDATKR	NALYQQA EVI	INQQAPL IPI
YYQPLIKLLK	PYVGGFPLHN	PQDYVYSKEL	YIKAH

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.

Reconstitution

It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH₂O.

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

The ygiS protein is likely a crucial component of a deoxycholate transport system, playing a significant role in the cellular response to bile acid detergents, particularly deoxycholate. In the presence of deoxycholate, its expression in a ygiS deletion mutant results in elevated intracellular deoxycholate levels and a consequential decrease in cell growth. Moreover, heightened expression in the presence of deoxycholate leads to a complete inhibition of cell growth. The significance of ygiS in responding to bile acid detergents, such as deoxycholate, underscores its potential involvement in the host defense mechanisms against bacterial growth in the gall bladder and duodenum.

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

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