

YgiS Protein, E. coli, Recombinant (His & SUMO)

General Information

Synonyms: Probable deoxycholate-binding periplasmic protein YgiS; ygiS

Protein Construction: 21-535 aa

Species: E. coli

Expression Host: E. coli

Accession: Q46863

Molecular Weight: 74.4 kDa (predicted)

AA Sequence: ADVPANTPLAPQQVFRYNNHSDPGTLDLPQKVEENTAAQIVLDFEGLVWMDGEGQVQPAQAERWEILDGG
KRYIFHLRSGLQWSDGQPLTAEDFVLGWQRAVDPKTASPFAGYLAQAHINNAAAIVAGKADVTSLGKATD
DRTLEVTLEQPVPWFTTMLAWPTLFPVPHHVIKHHGDSWSKPENMVYNGAFVLDQWVWNEKITARKNPKYR
DAQHTVLQQVEYLALDNSVTGYNRYRAGEVDLTWVPAQQIPAIEKSLPGELRIIPRLNSEYYNFNLEKPPFND
VRVRRALYLTVDRLIAQKVLGLRTPATTLTPPEVKGFSATTFDELQKPMSEVAMAKALLKQAGYDASHPLR
FELFYNKYDLHEKTAIALSSEWKKWLGAQVTLRTMEWKTYLDARRAGDFMLSRQSWDATYNDASSFLNTLK
SDSEENVGHWKNAQYDALLNQATQITDATKRNALYQQAEEVINQQAPLIPYIYQPLIKLLKPYVGGFPLHNPQ
DYVYSKELYIKAH

QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 90% as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

A DRUG SCREENING EXPERT

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.

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