# GltI/YbeJ Protein, E.coli (His-SUMO)

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| **Cat. No.:** | HY-P71460 |
| **Synonyms:** | gltI; ybeJ; yzzK; b0655; JW5092Glutamate/aspartate import solute-binding protein |
| **Species:** | E.coli |
| **Source:** | E. coli |
| **Accession:** | P37902 (23D-302N) |
| **Gene ID:** | 946938 |
| **Molecular Weight:** | Approximately 47.2 kDa |

## PROPERTIES

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| **AA Sequence** | D D A A P A A G S T L D K I A K N G V I V V G H R E S S V P F S Y Y D N Q Q K V<br>V G Y S Q D Y S N A I V E A V K K K L N K P D L Q V K L I P I T S Q N R I P L L<br>Q N G T F D F E C G S T T N N V E R Q K Q A A F S D T I F V V G T R L L T K K G<br>G D I K D F A N L K D K A V V V T S G T T S E V L L N K L N E E Q K M N M R I I<br>S A K D H G D S F R T L E S G R A V A F M M D D A L L A G E R A K A K K P D N W<br>E I V G K P Q S Q E A Y G C M L R K D D P Q F K K L M D D T I A Q V Q T S G E A<br>E K W F D K W F K N P I P P K N L N M N F E L S D E M K A L F K E P N D K A L N |
| **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. |
| **Reconsititution** | It is not recommended to reconstitute to a concentration less than 100 μg/mL in dd$H_2O$. |
| **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

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| **Background** | GltI/YbeJ protein is an integral component of the ABC transporter complex GltIJKL, crucial for the active uptake of glutamate and aspartate. Operating as a solute-binding protein within the complex, GltI plays a pivotal role in binding both glutamate and aspartate. This complex comprises two ATP-binding proteins (GltL), two transmembrane proteins (GltJ and GltK), and the solute-binding protein GltI. Together, these components orchestrate the efficient transport of glutamate and aspartate across the cell membrane, highlighting the essential function of GltI/YbeJ in this process. |

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

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA