

## Ferrichrome-iron receptor (fhuA) Recombinant Protein | fhuA recombinant protein

Recombinant Escherichia coli Ferrichrome-iron receptor (fhuA), partial

CATALOG #  
**AAA279392**

HOST  
**E coli**

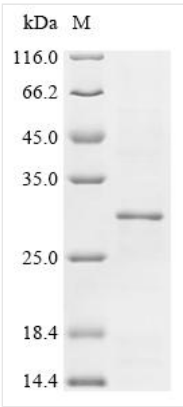
### PRODUCT SYNONYMS

Ferrichrome-iron receptor (fhuA); Recombinant Escherichia coli Ferrichrome-iron receptor (fhuA); partial; Ferric hydroxamate receptor; Ferric hydroxamate uptake; Ferrichrome-iron receptor; fhuA recombinant protein

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | E coli                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Purity/Purification     | Greater than 95% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                      |
| Form/Format             | Liquid or Lyophilized powder. If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.                                                                                                                                                                 |
| Sequence                | QNEPETGYYG WLPKEGTVEP LPNGKRLPTD FNEGAKNNTY SRNEKMGVYS FDHEFNDTFT VRQNLRF AEN KTSQNSVYGY GVCSDPANAY SKQCAALAPA DKGHYLARKY VVDDEKLQN                                                                                                                                                                                                                                                                                              |
| Sequence Length         | 269-387aa; partial                                                                                                                                                                                                                                                                                                                                                                                                               |
| Species                 | Escherichia coli (strain K12)                                                                                                                                                                                                                                                                                                                                                                                                    |
| Tag                     | C-terminal 6xHis-tagged                                                                                                                                                                                                                                                                                                                                                                                                          |
| Transmembrane Domain    | 2TM                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 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 degree C/-80 degree C. Our default final concentration of glycerol is 50%. Customers could use it as reference.        |
| Preparation and 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 degree C/-80 degree C. The shelf life of lyophilized form is 12 months at -20 degree C/-80 degree C.<br>Notes: Repeated freezing and thawing is not recommended. Store working aliquots at 4 degree C for up to one week. |

IMAGES



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

ADDITIONAL INFORMATION

|                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for fhuA recombinant protein | Involved in the uptake of iron in complex with ferrichrome, a hydroxamate-type siderophore. Binds and transports ferrichrome-iron across the outer membrane. In addition to its role in ferrichrome-iron transport, transports the antibiotic albomycin, which is a structural analog of ferrichrome, and acts as a receptor for colicin M, microcin J25 and bacteriophages T1, T5, phi80 and UC-1. The energy source, which is required for all FhuA functions except infection by phage T5, is provided by the inner membrane TonB system. |
| Product Categories/Family for fhuA recombinant protein   | Others                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

NCBI AND UNIPROT INFORMATION

|                               |                                                       |
|-------------------------------|-------------------------------------------------------|
| NCBI GI #                     | 16128143                                              |
| NCBI GeneID                   | 944856                                                |
| NCBI Accession #              | NP_414692.1                                           |
| NCBI GenBank Nucleotide #     | NC_000913.3                                           |
| UniProt Accession #           | P06971; P71280; P75665                                |
| Molecular Weight              | 82,182 Da                                             |
| NCBI Official Full Name       | ferrichrome outer membrane transporter                |
| NCBI Official Symbol          | fhuA                                                  |
| NCBI Official Synonym Symbols | ECK0149; JW0146; T1; tonA                             |
| NCBI Protein Information      | ferrichrome outer membrane transporter                |
| UniProt Protein Name          | Ferrichrome outer membrane transporter/phage receptor |
| UniProt Gene Name             | fhuA                                                  |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.