

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

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

CATALOG #
AAA279392

HOST
E coli

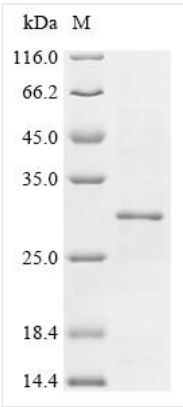
PRODUCT SYNONYMS

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 FNEGAKNNNTY SRNEKMGVYS FDHEFNDFTF 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. 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.