

Recombinant Human Ep-CAM/TROP-1/CD326 Protein

Catalog No.: RP00073 Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 4072 P16422

Tags

C-His

Synonyms

DIAR5; EGP-2; EGP314; EGP40; ESA; HNPCC8; KS1/4; KSA; M4S1; MIC18; MK-1; TACSTD1; TROP1; EPCAM; DIAR5; epithelial cell adhesion molecule; EGP-2; EGP314; EGP40; ESA; HNP CC8; KS1/4; KSA; M4S1; MIC18; MK-1; TACST D1: TROP1

Product Information

Source Purification

HEK293 cells \geq 95 % as

determined by SDS-

PAGE.

Calculated MW Observed MW

28.26 kDa 35-40 kDa

Endotoxin

 $< 0.1 \; \text{EU/}\mu\text{g}$ of the protein by LAL method.

Formulation

Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

a 400-999-6126

Background

This protein is a carcinoma-associated antigen and is a member of a family that includes at least two type I membrane proteins. This antigen is expressed on most normal epithelial cells and gastrointestinal carcinomas and functions as a homotypic calcium-independent cell adhesion molecule. The antigen is being used as a target for immunotherapy treatment of human carcinomas.

Basic Information

Description

Recombinant Human Ep-CAM/TROP-1/CD326 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gln24-Lys265) of human EpCAM/TROP-1 (Accession $\#NP_002345.2$) fused with a $6\times His$ tag at the C-terminus.

Bio-Activity

Measured by the ability of the immobilized protein to support the adhesion of NIH-3T3 mouse embryonic fibroblast cells. When cells are added to EpCAM-His coated plates (1.25 μ g/mL, 100 μ L/well), approximately >30% will adhere specifically after 30 minutes at 37°C.

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

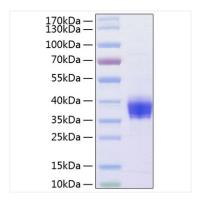
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

Validation Data



Recombinant Human Ep-CAM/TROP-1/CD326 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.